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ABSTRACT

The guide is one of a series of 10 units composing an orientation to the world of work course designed especially for disadvantaged and handicapped students in the ninth and tenth grades. It is designed to provide basic and remedial instruction in personal development, math, and language skills while providing information and skills basic or common to employment in all occupations. Topics treated in the course are (1) accidents and injuries at work, (2) dressing for safety, (3) on-the-job housekeeping for safety, (4) lifting, carrying, moving, (5) safe use of tools, machinery, and other equipment, (6) electrical safety, (7) fire prevention, (8) chemicals, gas, and poisons, (9) health practices for safety, (10) first aid and procedures for handling accidents, and (11) off-the-job safety. Lesson plans present major and supporting concepts and specify performance objectives. Suggested resources are correlated to teaching-learning-evaluation strategies, which are subdivided to meet the separate needs of the disadvantaged and the handicapped. A resource section specifies sources and costs of audiovisual aids. The final section offers student materials which include a variety of supportive classroom materials. (MW)

ED 098 434

occupational safety



ORIENTATION TO THE WORLD OF WORK SERIES

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ORIENTATION TO THE WORLD OF WORK UNIT
IN
OCCUPATIONAL SAFETY

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Introduction

This unit, "Occupational Safety," is one of a series of "Orientation to the World of Work" units designed for special vocational education teachers and other vocational teachers who have disadvantaged and handicapped students in their classes. There are nine other units in this series, namely:

- Personal Development
- Getting a Job
- Introduction to Orientation to the World of Work
- Learning About Jobs
- How to Keep a Job
- The Role of Work in Our Society
- Self-Appraisal for Employment
- Taxes Affecting the Worker
- Handling Your Paycheck

It is suggested that this be taught in short segments at various intervals throughout the school year as it relates to the world of work.

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I. Rationale

Why teach on-the-job safety? The reasons are numerous:

Generally speaking: About 2,000,000 disabling work injuries occur every year in this country.¹ One out of four people will have an accident that requires a doctor's care this year.² Nine out of ten of these accidents can be prevented or avoided.³ Their chief causes are wrong attitudes, lack of knowledge, and errors in judgment.⁴ They affect the worker's health, his job, and his pocketbook. For example, overexposure to dust and fumes may weaken lungs making the worker more susceptible to other diseases, cause more frequent absences from work, absorption of sick leave with pay, and deductions from his paycheck. Loss of a hand or an eye may mean loss of previously acquired job skills, require retraining in another skill which the imposed handicap will permit learning, or cause permanent unemployment. A beginning can be made in the classroom to protect the future worker.

From the employer's point of view: Employers have become more safety conscious since the passage of the Occupational Health and Safety Act in 1972, requiring them to furnish working places "free from recognized hazards which may cause death or serious physical harm." They are also more aware than ever before of the importance of accident-free workers due to the new requirement to carry workmen's compensation coverage for employees over and above the contributions to the federal and state workmen's compensation programs. Employers know what it means to lose production time due to accidents and injuries and to meet increased insurance rates when their accident and injury rates are high. They also witness family anguish and increased financial problems in instances of worker death or injury. Employers, therefore, have good reasons for wanting safety-conscious workers.

From the student's point of view: The nature of the disadvantaged and the handicapped makes them accident and injury prone. Employers are hesitant about hiring them (particularly the handicapped) for this reason. Safety consciousness will help students be more acceptable to employers. It will also help them keep themselves and those who work with them safe.

¹Safety in Your Future, p. 7

²You and Safety, Pamphlet No. 7, p. 2

³Ibid., p. 4

⁴Ibid., p. 7

II. Subject Matter Outline

- A. Accidents and Injuries at Work**
 - 1. Frequency and Types
 - 2. Causes and Prevention
- B. Dressing for Safety**
 - 1. General Precautions
 - 2. Head-Eyes-Face Protection
 - 3. Foot Protection
 - 4. Other Equipment and Clothing
- C. On-the-Job Housekeeping for Safety**
 - 1. Storage for Safety
 - 2. Disposal of Scrap and Waste
 - 3. Housekeeping Hazards
- D. Lifting, Carrying, Moving**
 - 1. Manual
 - 2. Machine
- E. Safe Use of Tools, Machinery, and Other Equipment**
 - 1. Hand, Bench, and Power Tools
 - 2. Machinery and Appliances
 - 3. Ladders
- F. Electrical Safety**
 - 1. Safe Use of Electricity
 - 2. How to Handle Electrical Circuits
 - 3. What Electrical Shock Will Do

- G. Fire Prevention
 - 1. Safe Practices in Handling Flammable Items
 - 2. Procedure to Follow in Case of Fire
 - 3. Safe Practices to Prevent Fires and Burns
- H. Chemicals, Gas, and Poisons
 - 1. Pesticides and Other Chemicals
 - 2. Natural Gas, Fumes and Ventilation
 - 3. Medicines and Other Poisonous Substances
- I. Health Practices for Safety
 - 1. Dangers of Working When Faint, Sick, Overtired, or under the Influence of Drugs or Alcohol
 - 2. Occupational Disease Hazards
 - 3. Importance of Cleanliness
- J. First Aid and Procedure for Handling Accidents
 - 1. How to Prepare for Emergencies
 - 2. First Aid (Elementary Rules)
- K. Off-the-Job Safety Practice and the Worker
 - 1. Off-Job Safety Practice and the Worker
 - 2. Safe Driving Habits
 - 3. Safety Practices at Home

III. Unit Objectives

The student will

- A. Identify causes of accidents and injuries.
- B. Identify ways to prevent accidents and injuries.
- C. Follow safe practices at home, school, and work.
- D. Identify procedures to follow in case of accident.

IV. Suggested Interest Approach

- A. Have students find news articles relating to causes of accidents and injuries.
- B. Film: "Not Even One Chance"; free, Louisville Safety Council
- C. Organize a debate about who bears major responsibility for accidents in a plant (the workers or administration).

V. MODIFYING THE UNIT FOR YOUR STUDENTS*

Basic Design. The purpose of this unit on occupational safety is to provide an overview of the role of safety practices in the world of work and to help the students become safety conscious. The instruction is to be non-technical and general in nature. The unit should not be taught as a safety course for any particular job or industry. Reference to particular jobs and industries should be as examples only; and those selected as examples should be the ones with which the student is most familiar, which he can observe, and in which he is employed or likely to be employed in the future.

Deciding What to Teach. The subject matter outlined covers all areas of occupational safety. Select the topics most needed by your students, taking into consideration your teaching time schedule. Examples of how the subject matter outline may be modified are given below. You should make your own modifications.

Suggested Use of Subject Matter Outline. Refer to footnotes on page 9 for maximum use of this schedule. The subject matter outline modifications--General, For Girls,² For Boys,³ For Boys--are to be used as follows: The letter and check (✓) marks under each heading represent the topics to be covered with each modification. For example, under the heading "General 1," the footnote reference (a1) for the topic "Accidents and Injuries at Work," refers to the footnote a1 on page 9, which suggests that the teacher may wish to add a section on "Why Be Interested in Safety." The check marks (✓) show which topics may be included to provide the general overview or which would be more appropriate to include when the class group is predominately boys or predominately girls.

Subject Matter Outline

	Modifications		
	General	For Girls ²	For Boys ³
A. Accidents and Injuries at Work	(a1) ✓	✓	✓
1. Frequency and Types	✓	✓	✓
2. Causes and Prevention	✓	✓	✓
B. Dressing for Safety		✓	✓
1. General Precautions	(b1) ✓	✓	✓
2. Head-Eyes-Face Protection		✓	✓
3. Foot Protection		✓	✓
4. Other Equipment and Clothing		✓	✓

*See footnotes, p. 9.

FOOTNOTES

1 General Coverage. All topics may be covered if time permits with strategies and resources selected according to the needs and interests of the students. The unit may be taught as a block or in modules at intervals throughout the course. The unit may be shortened as indicated in the columns above.

- (a1) May wish to add a section on "why be interested in safety."
- (b1) Cover general precautions and eye and foot protection.
- (c1) Omit this section if taught as a part of the school program.
- (d1) Omit this section. Combine information with "Off-the-Job Safety."
- (e1) Do not make this section a course on alcohol and/or drugs.
- (f1) Omit, if taught in health and physical education classes.
- (g1) Combine with other sections.

2 For Girls. Add sections on "caring for children" and "women in industry."

- (a2) Emphasize food handling, cleaning substances, and preventing falls.
- (b2) Include use of appliances, sewing, yard and kitchen tools.
- (c2) Combine with use of appliances.
- (d2) Combine with use of appliances and housekeeping for safety.
- (e2) Combine with use of appliances and housekeeping for safety.
- (f2) Omit, if taught as a part of the school program.
- (g2) Combine with other sections.

3 For Boys. In urban areas, place special emphasis on shops and factories. In rural areas, emphasize farm use and add a section dealing with safety precautions to observe when dealing with animals. Teach home safety from the maintenance and protection of family point of view.

- (a3) May omit section on appliances and emphasize industry or farm use, depending upon the interests of students and the locality.
- (b3) Omit this section if taught as a part of the school program.
- (c3) Omit, if taught in health and physical education classes.
- (d3) Include motorcycle safety when discussing safe driving habits.
- (e3) Combine with other sections.

MAJOR CONCEPT:

SUPPORTING CONCEPTS:

1. Frequency and Types
2. Basic Causes and Prevention

PERFORMANCE OBJECTIVES:

The student will

1. List the basic types of accidents and tell why their prevention is important to both the worker and the employer.
2. Give examples of unsafe acts and unsafe conditions.

A. ACCIDENTS AND INJURIES AT WORK 1. FREQUENCY AND TYPES

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p><u>Prepare</u> a bulletin board display of newspaper articles relating to on-the-job accidents. List the types of unsafe acts which lead to accidents.</p>	<p><u>Collect</u> articles which relate to job accidents.</p>	<p>Newspapers/magazines (D/H/T) Books, Booklets, Leaflets: No. 21. "Kit O' Tips for Youth and Their Employers"</p>
<p><u>View</u> film which points out the importance of following safe practices at work.</p>	<p>Same.</p>	<p>Films: No. 10. "How to Have an Accident at Work" No. 21. "Safe Side Clyde"</p>

Study safety posters on display.
List two reasons for practicing safety. **List** two possible causes of the accidents portrayed.

Posters:
No. 1. "Safety Poster Packet"
--"Causes and Prevention of Accidents

A. ACCIDENTS AND INJURIES AT WORK 1. FREQUENCY AND TYPES (CONTINUED)

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Read</u> the cartoon-type booklets, giving general information on safety at work, general types of accidents, and steps to take to prevent injury.</p>	<p>Same.</p> <p><u>Role play</u> the basic types of accidents. <u>Note to Teacher:</u> Many of these can be illustrated by using a big empty box which could be placed on top of a file cabinet and then falls on a person walking by, etc.</p>	<p>Books, Booklets and Leaflets: No. 4. "The ABC's of On-the-Job Safety" No. 54. "You and Safety"</p> <p>Empty boxes Student Materials: "Definitions," p. 76 Transparency Masters: "Basic Types of Accidents," pp. 85-87</p>
	<p><u>Make</u> posters to demonstrate types of accidents and preventative procedures.</p>	<p>Poster board, markers, etc.</p>
	<p><u>Field trip:</u> <u>Visit</u> a plant to observe the safety program. <u>Note to Teacher:</u> Ask supervisor to explain the plant's safety program.</p>	<p>Local plant with a safety engineer or supervisor in charge of safety program</p>
	<p><u>List</u> and <u>discuss</u> safety features brought out in the talk.</p>	<p>Same.</p>
	<p><u>View</u> a film to emphasize the danger of falls.</p>	<p>Film: No. 7. "Falls Are No Fun" No. 25. "Slips and Falls"</p>
	<p><u>Refer</u> to leaflets and poster display and <u>list</u> six causes of falls.</p>	<p>Posters: No. 1. "Safety Poster Packet" --"Falls" Books, Booklets, and Leaflets: No. 12. "Falls of Persons"</p>

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p><u>Evaluation:</u> List the most frequent types of accidents on the job. Tell why accident prevention is important to both the worker and the employer.</p>		

A. ACCIDENTS AND INJURIES AT WORK 2. BASIC CAUSES AND PREVENTION

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p><u>View</u> case-centered transparencies illustrating unsafe acts and conditions, and <u>complete</u> the exercises associated with the cases presented. <u>Note to Teacher:</u> Have ready duplicated copies of the exercises in the Student Booklet ready for class use.</p>	<p>Same.</p> <p><u>Define</u> an unsafe act. <u>Give an example of or describe a situation in which each of the unsafe acts listed occurs.</u></p> <p><u>Look</u> for safety and caution signs posted in your school and community. <u>Draw</u> these on a sheet of 8 1/2" x 11" paper. <u>Write a short statement underneath each</u>, telling the type of accident it is trying to prevent.</p> <p><u>Complete</u> programmed exercises dealing with accidents and poor judgment.</p> <p><u>Discuss</u> personal experience with or observation of an accident. <u>Explore</u> ways the accident could have been prevented.</p>	<p>Transparency Series: No. 1. "Succeeding at Work," Subset 5, "Keeping Safe at Work" --"Safety for Others" --"Accidents" --"Carelessness" --"Controlling Emotions for Safety" --"Safe Surroundings" --"Explosives" and accompanying exercises in Student Booklet</p> <p>Student Materials: "Definitions," p. 76 Transparency Master: "Basic Types of Unsafe Acts," pp. 88-91</p> <p>Omit programmed exercises. Discuss hazards of driving a car without a license or without owner's permission.</p> <p>Transparency Master: "Basic Types of Unsafe Acts," pp. 88-91</p>

A. ACCIDENTS AND INJURIES AT WORK 2. BASIC CAUSES AND PREVENTION (CONTINUED)

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p><u>View</u> a film which emphasizes that one chance may result in an accident; <u>list</u> unsafe acts, such as J.T.O. takes chances because he's in a hurry or some other good reason "just this once."</p> <p><u>View</u> a film which illustrates that knowledge doesn't help unless it is reinforced by action which keeps a person safe.</p> <p><u>View</u> transparencies and <u>define</u> the four Imps:</p> <ul style="list-style-type: none"> --Impatience --Impurity --Impulsiveness --Improvising <p><u>Demonstration</u>: <u>Note to Teacher</u>: Help the students recognize an accident-producing situation before it becomes a real accident. Demonstrate using an electrical tool (electric drill) which has three-pronged plug or an appliance with a broken or frizzy cord.</p>	<p>Same. <u>Watch</u> for reasons why some people <u>take</u> chances and the answer to each excuse given in the film.</p> <p>Same.</p> <p>Same.</p>	<p>Film: No. 17. "Not Even One Chance" (H/D/T)</p> <p>Film: No. 11. "Knowing's Not Enough"</p> <p>Dictionary Transparency Masters: "The Four Imp's," pp. 92-95</p> <p>Electric drill</p> <p>Three-pronged plug with ground wire removed</p> <p>Small appliance with damaged cord</p>
<p><u>Brainstorming</u>: <u>Recall</u> unsafe conditions one has seen or experienced. Refer to leaflets and booklets to help jog memory.</p>	<p>Same. <u>Note to Teacher</u>: Prepare handout sheet depicting pictures of safe and unsafe conditions.</p>	<p>Books, Booklets, and Leaflets:</p> <p>No. 4. "The ABC's of On-the-Job Safety"</p> <p>No. 54. "You and Safety"</p> <p>No. 7. "Catastrophe"</p>

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p><u>Evaluation:</u> <u>Categorize</u> conditions, using the suggested mimeographed list.</p> <p>or</p> <p><u>Evaluation:</u> <u>Cite</u> examples of unsafe acts in case situations involving safety.</p>	<p><u>Evaluation:</u> <u>Identify</u> the unsafe conditions and <u>match</u> word with picture.</p> <p><u>Draw</u> cartoons depicting unsafe acts. <u>Note to Teacher:</u> vary case situation for the handicapped.</p>	<p>Transparency Masters: "Basic Types of Unsafe Conditions," pp. 96-9 "Basic Types of Accidents," pp. 85-87</p> <p>Student Materials: "Mr. Mop Bucket," p. 77</p>

MAJOR CONCEPT: B. Dressing for Safety

SUPPORTING CONCEPTS:

1. General Precautions
2. Head-Eye-Face Protection
3. Foot Protection
4. Other Safety Equipment and Clothing

PERFORMANCE OBJECTIVES:

The student will

1. Describe proper clothing for two different job types, demonstrating a knowledge of proper dress for those jobs.
2. Name two jobs requiring the use of head-eye-face protective devices.
3. Describe how safety shoes protect the feet.
4. Name one job which necessitates the use and maintenance of respiratory equipment.

B. DRESSING FOR SAFETY 1. GENERAL PRECAUTIONS

TEACHING-LEARNING-EVALUATION STRATEGIES

		RESOURCES	
		DISADVANTAGED	HANDICAPPED
<u>Display</u> safety equipment. Note to <u>Teacher:</u> Arrange with a local safety equipment company to borrow a hard hat, goggles, face shield, gloves, asbestos suits, leg and body shields, safety shoes, etc. and demonstrate the proper use of each. If this resource is not available, alert students to the different types of equipment. Perhaps they can borrow items from someone they know for a day's "show and tell use of" in class.		Local companies with safety equipment individual students know who have safety clothing or equipment	Same.

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Refer to booklets, leaflets, and poster display.</u> <u>Discuss</u> the difference in personal safety equipment and safe dress. <u>Note to Teacher:</u> Dressing safely can include such things as the following:</p> <ol style="list-style-type: none"> (1) Decide whether to wear long or short sleeves. (2) Ties are often unsafe because they can get caught in machinery. (3) Sleeves should always be buttoned. (4) Proper dress for one job may not be correct for another. (5) Some jobs require uniforms for correct dress while other jobs consist of clean and pressed work clothes. (6) Loose clothing may be dangerous on many jobs. 	<p>Same.</p> <p><u>Illustrate</u> safe dress in relation to various jobs. <u>Make</u> posters or "show and tell."</p> <p><u>View</u> a film which sells the general idea of wearing personal protective equipment, such as people in sports activities wear.</p> <p><u>Evaluation:</u> <u>Describe</u> proper clothing for two different types of jobs.</p>	<p>Books, Booklets, and Leaflets:</p> <p>No. 11. "Eye Protection" No. 17. "Head Protection" No. 28. "Personal Protective Equipment" No. 32. "Protect Your Hands" No. 16. "Hand Protection" No. 1. "The ABC's of Foot Safety" No. 4. "The ABC's of On-the-Job Safety" No. 55. "Your Hands Are for Living" No. 9. "Ear Protection"</p> <p>Posters:</p> <p>No. 1. "Safety Poster Packet"</p> <p>Magazines</p> <p>Transparency:</p> <p>No. 1. "Succeeding at Work" --"Dressing for Safety"</p> <p>Same, but limit number of activities.</p> <p>Same.</p> <p>Collect and share pictures of proper clothing for two different types of jobs.</p> <p>Books, Booklets, and Leaflets:</p> <p>No. 11. "Eye Protection" No. 17. "Head Protection" No. 28. "Personal Protective Equipment" No. 32. "Protect Your Hands" No. 16. "Hand Protection" No. 1. "The ABC's of Foot Safety" No. 4. "The ABC's of On-the-Job Safety" No. 55. "Your Hands Are for Living" No. 9. "Ear Protection"</p> <p>Posters:</p> <p>No. 1. "Safety Poster Packet"</p> <p>Magazines</p> <p>Transparency:</p> <p>No. 1. "Succeeding at Work" --"Dressing for Safety"</p> <p>Same, but limit number of activities.</p> <p>Same.</p> <p>Collect and share pictures of proper clothing for two different types of jobs.</p> <p>Books, Booklets, and Leaflets:</p> <p>No. 11. "Eye Protection" No. 17. "Head Protection" No. 28. "Personal Protective Equipment" No. 32. "Protect Your Hands" No. 16. "Hand Protection" No. 1. "The ABC's of Foot Safety" No. 4. "The ABC's of On-the-Job Safety" No. 55. "Your Hands Are for Living" No. 9. "Ear Protection"</p> <p>Posters:</p> <p>No. 1. "Safety Poster Packet"</p> <p>Magazines</p> <p>Transparency:</p> <p>No. 1. "Succeeding at Work" --"Dressing for Safety"</p> <p>Same, but limit number of activities.</p> <p>Same.</p> <p>Collect and share pictures of proper clothing for two different types of jobs.</p>

B. DRESSING FOR SAFETY 2. HEAD-EYE-FACE PROTECTION

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Role play:</u> <u>Wear</u> hard hats and safety glasses and <u>devise</u> scenes in which workers <u>are protected</u> by their safety equipment, i.e., a man carrying a long board turns and hits another worker on the head, but the hard hat protects him.</p> <p><u>View</u> a film or filmstrip which illustrates the importance of eye safety and list hazards brought out in the filmstrip.</p> <p><u>Visit</u> the shop classes in the school. <u>Ask</u> instructor to demonstrate eye-head-face protection devices.</p> <p><u>Evaluation:</u> <u>Name</u> two jobs requiring the use of head-eye-face protective devices.</p>	<p>Same.</p> <p>Same.</p> <p>Same.</p>	<p>Equipment from a local supplier (D/H/T) Books, Booklets, and Leaflets: No. 11. "Eye Protection" No. 17. "Head Protection" No. 9. "Ear Protection"</p> <p>Filmstrip: No. 4. "Safety at Work" --"Protecting Your Eyes"</p> <p>Film: No. 26. "School Shop Safety"</p> <p>Shop teacher or industrial arts teacher</p>

B. PERSONAL PROTECTIVE DEVICES 3. FOOT PROTECTION

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p><u>Note to Teacher:</u> Secure a catalog of safety shoes. This will inform of many other safety aspects involved with foot care such as electricity and slip prevention.</p> <p><u>Research</u> types of foot protection and discuss how this enables one to do a more effective job.</p> <p><u>Demonstration:</u> <u>Show</u> how safety shoes protect toes from a severe blow by falling objects.</p> <p><u>Teacher:</u> A sample safety shoe with part of toe cut away to show the layers of steel and leather may be borrowed from a local store.</p> <p><u>Evaluation:</u> <u>Describe</u> how safety shoes protect the feet.</p>	<p>Same.</p> <p><u>Collect</u> pictures of shoes which protect the feet and tell how each will help improve job performance.</p> <p>Same.</p> <p>Same.</p>	<p>Safety Equipment Catalog Books, Booklets, and Leaflets: No. 15. "Foot Protection" No. 1. "The ABC's of Foot Safety" Safety Equipment Catalog</p> <p>Different styles of shoes available with safety toe</p>

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Note to Teacher:</u> Teacher may wish to read the suggested booklets before beginning the discussion. Exhibit leaflets for student examination.</p> <p><u>Discuss</u> when and when not to wear</p> <ul style="list-style-type: none"> (1) safety gloves. (2) body-leg protection. (3) asbestos suits. <p><u>Resource person:</u> Invite a trained person to talk about respiratory equipment and its use:</p> <ul style="list-style-type: none"> (1) as a protective device. (2) as a restoration of life for a drowning victim. (3) for one who has inhaled smoke. <p><u>Name</u> one job for which knowledge of the use of respiratory equipment is essential.</p> <p><u>Field trip:</u> Visit a local fire house or police department to see many forms of safety equipment and listen to an authorized person discuss its use and maintenance.</p>	<p>Same.</p> <p>Same. Keep discussion short.</p> <p>Same. Omit #2.</p>	<p>Booklets:</p> <ul style="list-style-type: none"> No. 1. "The ABC's of Foot Safety" No. 16. "Hand Protection" No. 23. "Leg Protection" No. 29. "Personal Protective Equipment" No. 32. "Protect Your Hands" No. 45. "Welding and Cutting Safely" No. 54. "You and Safety" No. 55. "Your Hands are for Living" <p>Local police and fire department specialist</p> <p>Member of emergency or rescue squad, police department, or fire department</p> <p>Local fire department</p> <p>Local police department</p>

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>View</u> a piece of worn equipment. <u>Discuss</u> when to replace worn equipment. <u>Note to Teacher:</u> Secure old safety glasses or some other piece of safety equipment.</p> <p><u>View</u> a film to summarize the value of personal protective devices.</p> <p><u>Summary or Evaluation:</u> <u>View</u> case-centered transparency and <u>complete</u> accompanying student exercise sheet.</p>	<p>Same.</p> <p>Same.</p>	<p><u>Film:</u> No. 1. "Bare Minimum" No. 22. "Safety Doesn't Happen"</p> <p><u>Transparency:</u> No. 1. "Succeeding at Work" Subset 5: "Keeping Safe at Work" --"Dressing for Safety" and accompanying exercise from student booklet</p>

MAJOR CONCEPT:

C. On-the-Job Housekeeping for Safety

SUPPORTING CONCEPTS:

1. General Principles to Follow
2. Storage for Safety
3. Disposal of Scrap and Waste

PERFORMANCE OBJECTIVES:

The student will

1. Name three ways to eliminate housekeeping hazards.
2. Stack boxes or material correctly and safely.
3. List two types of waste or scrap that must be removed daily.

C. ON-THE-JOB HOUSEKEEPING FOR SAFETY 1. GENERAL PRINCIPLES TO FOLLOW

TEACHING-LEARNING-EVALUATION STRATEGIES

RESOURCES	HANDICAPPED	EISADVANTAGED
<p>Posters: No. 1. "Safety Poster Packet" No. 1. "Safety Poster Packet" --"Housekeeping Safety" --"Safe Surroundings" and accompanying student exercise</p> <p>Transparency: No. 1. "Succeeding at Work" Subset 5, "Keeping Safe at Work" --"Safe Surroundings" and accompanying student exercise</p> <p>View case-centered transparency dealing with safe surroundings and complete accompanying exercises.</p>	<p>Same. <u>Inspect</u> the classroom and correct any housekeeping hazards.</p> <p>Refer to housekeeping poster on display and keep slogan in mind. Read about good housekeeping practices as they apply to different jobs.</p>	

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p><u>Buzz groups:</u> Refer to leaflet and poster previously displayed. Prepare four one-minute skits on falls and preventions and present to class. For example:</p> <ol style="list-style-type: none"> (1) Freshly cleaned floors (2) Oil spills on floor (3) Protective shoes to prevent slipping (4) Non-skid abrasive coatings on floors <p><u>Research</u> what has been done in the school to prevent falls. Look at stairways and any other natural hazards in your school building.</p> <p><u>Ask</u> a local company to share records of accidents or published reports.</p> <p><u>Evaluation:</u> Describe in writing three ways to eliminate housekeeping hazards.</p>	<p><u>Role play</u> skits depicting falls and prevention. For example:</p> <ol style="list-style-type: none"> (1) Freshly cleaned floors (2) Oil spills on floor (3) Wear protective shoes to prevent slipping <p><u>Tour</u> the school building to determine what has been done to prevent falls.</p> <p><u>Same.</u></p> <p><u>Evaluation:</u> Describe in writing three ways to eliminate housekeeping hazards.</p>	<p><u>Prepare skits (H)</u></p> <p><u>Posters:</u></p> <p>No. 1. "Safety Poster Packet" -- "Falls"</p> <p>No. 3. "The ABC's of Office Safety"</p> <p>No. 27. "Occupational Housekeeping"</p> <p>No. 37. "Safety in the General Metals Shop"</p> <p>No. 38. "Safety in the Machine Shop"</p> <p>No. 36. "Safety in the Farm Mechanics Shop"</p>

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p><u>Note to Teacher:</u> Demonstrate how to stack and store boxes of different size and shape in a neat orderly fashion.</p> <p><u>Practice</u> stacking and storing boxes of different sizes and shapes in a neat orderly fashion.</p> <p>Define the following terms:</p> <ul style="list-style-type: none"> (1) Flammable (2) Toxic (3) Explosives <p><u>Mark</u> the boxes in different ways. For example:</p> <ul style="list-style-type: none"> --Flammable --Toxics --Explosives <p><u>Re-stack</u> showing what differences are now required.</p>	<p><u>Note to Teacher:</u> Demonstrate how to stack and store boxes of different size and shape in a neat orderly fashion.</p> <p><u>Practice</u> stacking and storing boxes of different sizes and shapes in a neat orderly fashion.</p> <p>Define the following terms:</p> <p>Same.</p> <p><u>Mark</u> the boxes in different ways. For example:</p> <ul style="list-style-type: none"> --Flammable --Toxics --Explosives <p><u>Re-stack</u> showing what differences are now required.</p>	<p><u>Note to Teacher:</u> Demonstrate how to stack and store boxes of different size and shape in a neat orderly fashion.</p> <p><u>Practice</u> stacking and storing boxes of different sizes and shapes in a neat orderly fashion.</p> <p>Define the following terms:</p> <p>Same.</p> <p><u>Mark</u> the boxes in different ways. For example:</p> <ul style="list-style-type: none"> --Flammable --Toxics --Explosives <p><u>Re-stack</u> showing what differences are now required.</p>
<p><u>Weight</u> various size boxes, such as 5 lbs., 10 lbs., 20 lbs. <u>Stack</u> with: One 5 lb. object One 10 lb. object One 20 lb. object</p> <p><u>Brainstorming:</u> List reasons why work areas should be kept uncluttered. Visit storage areas to observe if</p> <ul style="list-style-type: none"> (1) aisles to fire extinguishers are clear. (2) exits are clear. (3) work space is adequate for efficient work habits. 	<p><u>Weight</u> various size boxes, such as 5 lbs., 10 lbs., 20 lbs. <u>Stack</u> with: One 5 lb. object One 10 lb. object One 20 lb. object</p> <p><u>Weight</u> various size boxes, such as 5 lbs., 10 lbs., 20 lbs. <u>Stack</u> with: One 5 lb. object One 10 lb. object One 20 lb. object</p> <p><u>Weight</u> various size boxes, such as 5 lbs., 10 lbs., 20 lbs. <u>Stack</u> with: One 5 lb. object One 10 lb. object One 20 lb. object</p>	<p><u>Weight</u> various size boxes, such as 5 lbs., 10 lbs., 20 lbs. <u>Stack</u> with: One 5 lb. object One 10 lb. object One 20 lb. object</p>

C. ON-THE-JOB HOUSEKEEPING FOR SAFETY 2. STORAGE FOR SAFETY (CONTINUED)

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Observation Tour:</u> Visit a warehouse or storeroom. Talk with person in charge about how items are organized and why.</p> <p><u>Discuss</u> storage of food in freezers and refrigerators and on shelves. <u>Determine</u> how to detect spoilage.</p> <p><u>Complete</u> programmed exercises on safe handling of food.</p> <p><u>Evaluation:</u> Ask parents' permission to reorganize and clean storage area, refrigerator, freezer, or garage at home.</p>	<p>Same. Also, reorganize classroom shelves or closet.</p> <p>Same.</p> <p>Omit. Listen to discussion by teacher.</p> <p>Same.</p>	<p><u>Cookbooks</u>, home freezing instruction books</p> <p>Filem--8mm Single Concept:</p> <p>No. 2. "Cleanliness and Storage: Cooking"</p> <p><u>Books</u>, <u>Booklets</u>, and <u>Leaflets</u>:</p> <p>No. 32. <u>Safety</u>, Frames 197-205</p>

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p><u>Construct a scrap/waste disposal chart.</u> <u>Star</u> the items which create a daily safety or ecological hazard in storage or disposal.</p> <ul style="list-style-type: none"> (1) Plants producing wood, metal and water wastes (2) Oily rags and contaminated cleaners (3) Toxics (4) Food <p><u>Observe</u> how local businesses, farms and plants in area dispose of waste and scrap. <u>Discuss</u> whether the safest and most ecological methods are used.</p>	<p>Same.</p>	<p>Poster board</p>
<p><u>View</u> a film which emphasizes that dumping waste into rivers is no answer to disposal problems.</p>	<p>Same.</p>	<p>Film: No. 20. "The River Must Live!"</p>

Evaluation: Write a paragraph including two types of waste or scrap that must be removed daily.

MAJOR CONCEPT : D. Lifting, Carrying, and Moving Objects

SUPPORTING CONCEPTS :

1. Manual
2. Machine

PERFORMANCE OBJECTIVES :

The student will

1. Demonstrate safe lifting and carrying procedures.
2. List two advantages of using a machine for help.

D. LIFTING, CARRYING, AND MOVING OBJECTS 1. MANUAL

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<u>Read</u> cartoon-type booklet which illustrates how to carry, lift, and move objects without getting hurt.	Same.	Books, Booklets, and Leaflets: No. 2. "The ABC's of Moving Things Safely" No. 49. "What Everyone Should Know About Lifting"
<u>Refer</u> to poster display for hints on lifting and carrying items.	Same.	Posters: No. 1. "Safety Posters Packet" --"Lifting, Carrying, Moving"
<u>Discuss</u> such things as those following:	Same. Use visuals.	Prepare visuals (H)
(1) Planning the move (2) Lifting and lowering (unlifting) heavy objects (3) Moving long and bulky objects (4) Carrying lighted torches and hot metals		(continued)

D. LIFTING, CARRYING, AND MOVING OBJECTS 1. MANUAL (CONTINUED)

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p>(5) Proper way to pull and push (6) Injuries due to incorrect lifting (7) Handling special-shaped objects (barrels, drums, kegs, boxes and cartons, sacks) (8) Physical conditions which make moving heavy objects dangerous to some people</p> <p><u>View</u> a film which describes proper lifting techniques. Same.</p> <p><u>Evaluation:</u> <u>Demonstrate</u> the proper way to lift a heavy or large object. Use the boxes previously brought to school.</p> <p>or</p> <p><u>Demonstrate</u> how to lift, balance, and carry a loaded tray (as for a sickroom or in a restaurant).</p> <p>Film: No. 16. "A New Way To Lift" or No. 27. "You Can Handle It"</p> <p><u>Boxes</u></p> <p>Same. <u>Note to Teacher:</u> The suggested weight of the box may be 60 or 70 lbs. Have students lift using correct procedures.</p> <p>Tray and dishes from school cafeteria</p>		

D. LIFTING, CARRYING, AND MOVING OBJECTS 2. MACHINE

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>View</u> pictures of different types of conveyors such as the following:</p> <ol style="list-style-type: none"> (1) Hand trucks (2) Rollers (3) Cranes (4) Dollies (5) Carts (in hospitals, restaurants, etc.) (6) Farm machinery used for lifting, carrying and moving <p><u>Note to Teacher:</u> A short explanation of these labor-saving devices will be helpful. An equipment dealer will have sales literature showing conveyors. The school custodian or maintenance man may have a dolly or cart which may be observed in use or borrowed for demonstration.</p>	<p><u>Field trip:</u> Visit a local supplier to observe the following:</p> <ol style="list-style-type: none"> (1) Hand trucks (2) Rollers (3) Cranes (4) Dollies (5) Carts (in hospitals, restaurants, etc.) (6) Farm machinery used for lifting, carrying, and moving 	<p>Local supplier (H) School maintenance man</p> <p><u>Filmstrip:</u> No. 4. "Safety At Work" --"Operating Power Machines"</p> <p><u>Discuss</u> the values of mechanized materials handling such as the following:</p> <ol style="list-style-type: none"> (1) Faster (2) Less danger for back injury by improper lifting (3) More economical <p><u>Evaluation:</u> List two advantages of using mechanical devices or machines for moving heavy objects.</p> <p>Same.</p>

MAJOR CONCEPT:

E. Safe Use of Tools, Machinery, and Other Equipment

SUPPORTING CONCEPTS:

1. Hand, Bench and Power Tools
2. Machinery and Appliances
3. Ladders

PERFORMANCE OBJECTIVES:

The student will

1. Practice safety precautions when using hand, bench and power tools.
2. Operate machines and appliances only after proper instruction and with safety guards in place.
3. Demonstrate the proper angle for a ladder in order to be safe as one climbs it.

E. SAFE USE OF TOOLS, MACHINERY, AND OTHER EQUIPMENT		1. HAND, BENCH, AND POWER TOOLS
TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<u>Display posters on safe use of tools.</u> Keep slogans in mind.	Same.	<p>Posters: No. 1. "Safety Poster Packet" --"Using Tools"</p> <p>Student Materials: "Hand and Bench Tools," p. 78</p> <p>Films: No. 12. "Layout Tools for Metal Work" No. 5. "Chisels" No. 4. "Boring and Drilling"</p>
<u>Exhibit a variety of hand, bench, and power tools.</u> <u>Note to Teacher:</u> Select from small kitchen tools, sewing tools, car repair tools, shop tools, yard tools, and farm tools.	Same. <u>View</u> a film which describes hand, bench or power tools.	<p>Student Materials: "Hand and Bench Tools," p. 78</p> <p>Films: No. 12. "Layout Tools for Metal Work" No. 5. "Chisels" No. 4. "Boring and Drilling"</p>
<u>Resource Person:</u> <u>Invite</u> one who is skilled to demonstrate safe use of hand, bench, and power tools.	Same.	<p>Suggested Resource Persons: --Agriculture teacher --Industrial arts teacher --Home economics teacher</p> <p>Student Materials: "Suggested Tips for Hand Tool Safety," p. 79</p>

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>View</u> single-concept films on safe use of small tools.</p> <p><u>View</u> a filmstrip which describes safe ways of using hand and bench tools.</p> <p><u>Read</u> leaflets covering safe use of tools.</p> <p><u>Construct</u> a tool board to properly store tools on a peg board by drawing outlines of tools. OR: <u>Draw</u> on large paper for an individual pattern to take home for personal tools. (Boys) OR: <u>Develop</u> a plan for organizing kitchen and sewing tools for ease of use and safety. (Girls)</p> <p><u>Discuss</u> safety with power hand tools such as the following:</p> <ol style="list-style-type: none"> (1) The pre-start checklist (2) Correct operating methods (3) Precautions (4) Adjustments and repairs (5) Cleanup procedure 	<p>Same.</p> <p>Same.</p> <p>Same.</p> <p>Same.</p>	<p>Films--8mm Single Concept: No. 1. "Cleanliness and Safety: Kitchen" No. 3. "Wood: Hand and Power Tools"</p> <p>Filmstrip: No. 4. "Safety at Work" --"Using Hand and Bench Tools"</p> <p>Books, Booklets, and Leaflets: No. 42. "Safety on Part-time Jobs--Food Handling" No. 43. "Summer Jobs--Laborers, Home Yard, and Service Station" No. 26. "National Standard Checklist for Teaching Home Safety"</p> <p>Peg board from shop (D/H/T)</p>

and/or

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p><u>Discuss</u> safety when using electric knives, can openers, meat slicers, coffee urns, pressure cookers, choppers, mixers, grinders. <u>Apply</u> to use in home, hospital, cafeteria, and restaurant work.</p> <p><u>Field trip:</u> <u>Visit</u> shop to see safe use of hand, bench, and power tools.</p> <p><u>Evaluation:</u> <u>Practice</u> safety precautions when using hand, bench, and power tools. <u>Select</u> and <u>complete</u> exercises or project involving the use of hand tools.</p> <p><u>Note to Teacher:</u> Girls might like to prepare a salad or simple dessert, demonstrating correct use of knives, can opener, mixer, blender, etc. A simple sewing project (completing a hem or making a simple clothing repair) showing correct use of scissors, pins, etc. would also be appropriate.</p>	<p>Same.</p> <p>Same.</p>	<p>School shop (D/H)</p> <p>Home economics laboratory</p> <p>School shop</p>

TEACHING-LEARNING-EVALUATION STRATEGIES

RESOURCES

DISADVANTAGED	HANDICAPPED	
<p><u>Read</u> Safety Education Data Sheets.</p> <p><u>Explore</u> the safety measures for the shop selected according to special interests of the individual and report findings to class.</p>	<p>Same.</p> <p>and/or</p>	<p><u>Note to Teacher:</u> Discuss safe use of machinery with which students are familiar, such as sewing machines, stoves, washers and dryers, tractors and other farm machinery, shop equipment, floor scrubbers and polishers, mowers, etc. Use resource people, if desired, such as a farmer, county agent, home demonstration agent, shop teacher, custodian, and others.</p> <p><u>Discuss</u> trouble indicators when using power machines and/or appliances.</p> <p><u>View</u> a film on how to inspect and care for machinery.</p>

Books, Booklets, and Leaflets:

No. 26. "National Standard Checklist for Teaching Home Safety"

No. 50. "What Everyone Should Know about Natural Gas Safety"

No. 34. "Safety in the Auto Shop"

No. 35. "Safety in the Electrical Shop"

No. 36. "Safety in the Farm Mechanics Shop"

No. 37. "Safety in the General Metal Shop"

No. 38. "Safety in the Machine Shop"

No. 39. "Safety in the Sheet Metal Shop"

No. 40. "Safety in the Woodshop"

No. 20. "Inventory of Safety Check Points in Business Machines, Classrooms, and Offices"

Manufacturers' instruction booklets

Multi-media Kit:

No. 3. "International Harvester Farm Equipment Safety Teaching Kit"

National Safety Council Catalog

Transparency Masters:

"Tractor Safety Series," pp. 100-116

Student Materials:

"Tractor Safety Information Sheet," pp. 80-81

"Tractor Safety Exercise Sheet," p. 82

Same, except limit number of trouble indicators.

Booklets:

Same as above.

Books, Booklets, and Leaflets:

No. 53. "Women in Industry"

Film:

No. 9. "For Safety's Sake" (D/H)

E. SAFE USE OF TOOLS, MACHINERY, AND OTHER EQUIPMENT 2. MACHINERY AND APPLIANCES (CONTINUED)

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p><u>Practice</u> safety measures when operating machines and appliances.</p> <p><u>Note to Teacher:</u> Arrange for hands-on experiences according to laboratory facilities available.</p> <p><u>Evaluation:</u> Make a checklist of things to do before using any equipment. Machines are only as safe as the person who uses them.</p>	<p>Same.</p>	<p><u>Poster paper</u>, magic markers, letter stencils (D/H)</p> <p><u>Chart:</u> Make a "Never" chart, i.e. (1) Never use machines with a safety guard removed.</p> <p>(2) Never use machinery in need of repair.</p> <p>(3) Never leave operating machinery unattended.</p>

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p><u>List</u> safety precautions concerning ladders such as the following:</p> <ol style="list-style-type: none"> (1) Keep one hand on ladder at all times. (2) Don't stretch--move the ladder. (3) Place ladder on firm footing. <p><u>Make</u> a poster illustrating safe use of ladders.</p> <p><u>View</u> a film on safety involving use of a ladder.</p> <p><u>Discuss</u> such things as</p> <ol style="list-style-type: none"> (1) <u>Inspection</u> for safety. (2) sitting, climbing and working on ladders. (3) maintenance and storage. (4) selecting the right ladder for the job. <p><u>Evaluation:</u> Demonstrate the proper angle for a ladder in order to be safe as one climbs it.</p>	<p>Books, Booklets and Leaflets: No. 22. "Ladders"</p> <p>Film: No. 19. "Point of No Return"</p> <p>Ladder</p> <p>Same.</p> <p>Same.</p> <p>Same.</p>	

MAJOR CONCEPT: F. Electrical Safety

SUPPORTING CONCEPTS:

1. Safe Use of Electricity
2. How to Handle Electrical Circuits
3. What Electrical Shock Will Do

PERFORMANCE OBJECTIVES:

The student will

1. Write five safety rules for the use of electricity.
2. Describe what to do when a fuse is blown at work.
3. Describe the procedures for rescuing a shock victim.

F. ELECTRICAL SAFETY 1. SAFE USE OF ELECTRICITY		TEACHING-LEARNING-EVALUATION STRATEGIES	HANDICAPPED	RESOURCES
DISADVANTAGED		<p><u>Display poster dealing with electrical shock. Note to Teacher:</u> <u>Refer to what was learned about electrical safety during the study of electrical machinery and appliances. Advance from this point.</u></p> <p><u>Look for broken electrical safety rules at home, school, or any other place regularly visited. Report to class one or two days after research begins. Use duplicated checklist provided by teacher.</u></p>	<p><u>Posters:</u> No. 1. "Safety Poster Packet" --"Electrical Shock"</p> <p><u>Booklet:</u> No. 26. "National Standard Checklist for Teaching Home Safety" --"For Safe Wiring" --"When Using Electric Appliances"</p>	

F. ELECTRICAL SAFETY I. SAFE USE OF ELECTRICITY (CONTINUED)

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p><u>Discuss</u> conductors of electricity--copper, silver, water, etc. <u>Note to Teacher:</u> Emphasize safety. Wires are insulated. Workers may be insulated, too--by rubber boots or gloves if there is water; otherwise, the person may sustain severe shock.</p> <p><u>Complete</u> programmed exercises dealing with electrical safety.</p> <p><u>Read</u> and <u>discuss</u> booklet on electrical safety.</p> <p><u>Evaluation:</u> <u>Write</u> five safety rules for safe use of electricity.</p>	<p>Same.</p> <p>Omit.</p> <p><u>Make</u> a chart using pictures to describe what everyone should know about electric safety.</p>	<p>Books, Booklets, and Leaflets: No. 47. "What Everyone Should Know About Electrical Safety"</p> <p>Books, Booklets, and Leaflets: No. 33. <u>Safety</u>, Frames 158-180</p> <p>Books, Booklets, and Leaflets: No. 47. "What Everyone Should Know About Electrical Safety"</p>

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Field trip:</u> View fuse boxes and circuit breakers in the school to see what the equipment looks like.</p> <p><u>Note to Teacher:</u> Arrange a trip to see a fuse box in the school.</p> <p><u>Note to Teacher:</u> Ask building maintenance personnel to demonstrate how to re-set a circuit breaker and change a fuse. Stress that on the job, only authorized persons should change fuses.</p> <p><u>Discuss</u> the importance of learning which switches supply electricity to each machine in a shop.</p>	<p>Same.</p> <p>Same.</p> <p>Same.</p>	<p>Maintenance personnel</p> <p>Suggested Resource Persons: --Electricians --Maintenance personnel</p> <p>Same, or the situation may be varied.</p> <p><u>Evaluation:</u> Tell what to do in the following situation: Michael is working on a piece of equipment in shop for which he needs the use of a power saw. There are many power tools being used at this time. As Michael plugs in the saw, a fuse is blown. What should Michael do?</p>

F: ELECTRICAL SAFETY 3: WHAT ELECTRICAL SHOCK KILL TO

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Watch</u> a resource person demonstrate the danger of electrocution and <u>listen</u> to him discuss the effects on the body and talk about electrical safety.</p> <p>or</p> <p><u>Watch</u> teacher demonstration of the effects of electrocution.</p> <p><u>Note to Teacher:</u> Rig an electric circuit which can be completed by a hot dog. Show what happens to an electrocuted hot dog. The shop teacher might be able to help you construct this gadget.</p>	<p>Same.</p> <p>Same.</p>	<p>Electrician Science or shop teacher Employee of local power company Rescue person from police or fire department Member of rescue squad Health and P.E. teacher</p> <p>Teacher Information Sheet: "Flesh Fry" p. 83</p> <p>Booklet: No. 47. "What Everyone Should Know About Electrical Safety"</p> <p>Same.</p> <p>Same.</p> <p><u>Role Play</u> situation where one student gets a severe shock and is still touching the source of electricity. <u>Point out</u> what should be done such as</p> <ol style="list-style-type: none"> (1) Don't touch the victim. (2) Turn off electricity. (3) Get help. <p><u>Make</u> another "Never Chart"</p> <ol style="list-style-type: none"> (1) <u>Never</u> grab hold of a person if he has contact with an electric current or line. (2) <u>Never</u> turn on an appliance when standing on a wet floor or in water. (3) <u>Never</u> touch plumbing or metal objects and an appliance at the same time. <p>(continued)</p>

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p>(4) <u>Never</u> touch appliances with wet hands.</p> <p>(5) <u>Never</u> use any appliance that sparks or stalls.</p> <p>(6) <u>Never</u> clean an appliance that is plugged in, such as toaster, waffle iron, etc. Always disconnect it first.</p> <p>(7) <u>Never</u> use electrical tools in the rain.</p> <p>(8) <u>Never</u> forget to inspect tools often for wear or repair.</p> <p>(9) <u>Never</u> patch an extension cord; shorten it.</p>	<p>Evaluation and Summary: Answer a quiz relative to the effects of electric shock on the body and tell how to rescue a shock victim.</p> <p>Teacher developed quiz</p> <p>Same.</p>	

MAJOR CONCEPT:

G. Fire Prevention

SUPPORTING CONCEPTS:

1. Safe Practices in Handling Flammable Items
2. Procedure to Follow in Case of Fire
3. Safe Practices to Prevent Fires and Burns

PERFORMANCE OBJECTIVES:

The student will

1. Write two rules about handling flammable items.
2. Select the proper type of extinguisher for any given class of fire (i.e., electrical, gas, oil, etc.).
3. List five ways to prevent fires and burns.

C: FIRE PREVENTION 1: SAFE PRACTICES IN HANDLING FLAMMABLE ITEMS

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED

HANDICAPPED

RESOURCES

Name some flammable materials such as the following:

- (1) Kerosene
- (2) Paints
- (3) Solvents
- (4) Fuel Oil

Discuss dangers of handling flammable materials, such as:
(1) One gallon of gasoline vaporized can explode with the force of 83 pounds of dynamite
(2) All flammable materials can burn, hurting you and destroying property.

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Collect</u> items for a bulletin board which show</p> <p>(1) safe storage and handling of flammable materials.</p> <p>(2) containers properly closed prevent the escape of dangerous vapors.</p>	<p>Same.</p> <p><u>Discuss</u> methods of identifying dangerous situations.</p>	<p>Newspaper clippings Safety posters</p>

Evaluation: Write two rules about handling flammable items.

Same.

G. FIRE PREVENTION 2. PROCEDURES TO FOLLOW IN CASE OF FIRE

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<u>Discuss</u> procedures to help in case of fire at work, school, shop, or home.	Same. <u>View</u> a filmstrip which describes ways to put out fires.	Books, Booklets, and Leaflets: No. 26. "National Standard Checklist for Teaching Home Safety" No. 52. "Where's the Fire?" Filmstrip: No. 1. "Fire and Fire Prevention" --"Putting out Fires and Fire Education"
	<u>Field trip:</u> <u>Visit</u> an alarm box and show how to operate.	Local alarm box near school
	<u>Complete</u> the programmed exercises about what to do in case of fire.	Books, Booklets, and Leaflets: No. 33. <u>Safety</u> , Frames 181-196
	<u>Listen to</u> a fireman discuss how to put out fires. <u>Watch</u> his demonstration of the use of different types of fire extinguishers.	Fireman
	<u>View</u> different types of fire extinguishers with a picture placed by each type illustrating the kind of fire it will control safely. <u>Note to Teacher:</u> Collect fire extinguishers or go to a display at a fire station.	Filmstrip: No. 4. "Fire and Fire Prevention" --"Fire and Fire Protection" Fire station Curriculum Guide: No. 1. "Safety in Trade and Industrial and Technical Education"
	<u>Evaluation:</u> <u>Select</u> the proper type of extinguisher for any given class of fire, e.g., electrical, gas, and oil.	Same.

G. FIRE PREVENTION 3. SAFE PRACTICES TO PREVENT FIRES AND BURNS

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>View</u> film or filmstrip on fire prevention.</p>	<p>Same.</p>	<p>Film: No. 8. "Fire--Cause for Alarm" Filmstrip: No. 1. "Fire and Fire Prevention" --"Causes and Prevention of Fire"</p>
<p><u>Learn</u> some good practices to follow to prevent fires and burns. <u>Complete</u> the programmed exercises on fires, burns, and safety precautions. Also, <u>read</u> booklet on this subject.</p>	<p><u>Note to Teacher:</u> Help students by reading these.</p>	<p>Books, Booklets, and Leaflets: No. 33. <u>Safety</u>, Frames 130-165 No. 52. "Where's the Fire?" No. 42. "Safety on Part-time Jobs--Food Handling"</p>
<p><u>Check</u> your home for fire hazards.</p>	<p>Same.</p>	<p>Books, Booklets, and Leaflets: No. 26. "National Standard Checklist for Teaching Home Safety"</p>
<p><u>Visit</u> a machine shop and <u>observe</u> how oil and grease could be ignited if a machine is not maintained efficiently.</p>	<p>Same.</p>	<p>Machine shop in school</p>
<p><u>Discuss</u> how safety inspections may turn up an obvious danger simply because a group of people go around looking at everyday practices with safety in mind.</p>	<p>Same.</p>	<p>Safety tour of school or shops</p>
<p><u>Evaluation:</u> <u>List</u> five ways to prevent fires and burns.</p>	<p>Same.</p>	

MAJOR CONCEPT:

H. Chemicals, Gas, and Poisons

SUPPORTING CONCEPTS:

1. Pesticides and Other Chemicals
2. Fumes and Ventilation
3. Medicines and Other Poisonous Substances

PERFORMANCE OBJECTIVES:

The student will

1. Describe precautions to take during indoor and outdoor use of chemicals, paints, and sprays.
2. Tell how to detect possible gas poisoning.
3. Tell how to store medicines and other possible poisonous substances.

H. CHEMICALS, GAS, AND POISONS 1. PESTICIDES AND OTHER CHEMICALS		TEACHING-LEARNING-EVALUATION STRATEGIES	RESOURCES
DISADVANTAGED	HANDICAPPED		
<u>Display</u> empty containers and packages of pesticides, sprays, medicines, cleaning fluids, aerosols, etc. <u>Note</u> the cautions printed on the labels.	Same.		Cartons, cans, and bottles
<u>Recall</u> some dangers of toxic materials.	Same.		
<u>Discuss</u> reasons for labeling materials.	Same.		
<u>Discuss</u> both <u>indoor</u> and <u>outdoor</u> precautions when spraying and painting.	Same.		

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Discuss</u> proper ventilation when using chemicals, paints, and sprays. <u>Note to Teacher:</u> May use accident items in the news to illustrate how important proper ventilation is. See teacher information sheet of news articles.</p> <p><u>Resource Person:</u> Listen to a doctor talk about the effects of certain chemicals on the human body.</p> <p><u>View</u> a film on dangers of pesticides.</p> <p><u>Evaluation:</u> Demonstrate safety precautions to take when working with toxic materials in an enclosed area.</p>	<p>Same.</p> <p>Local doctor</p> <p>Same.</p> <p>Same.</p>	<p>Books, Booklets, and Leaflets: No. 31. "Poison and You" No. 7. "Catastrophe" (T) Teacher Information Sheet: "Fumes and Asphyxiation," p. 84</p> <p>Films: No. 18. "Pesticides in Focus" No. 24. "Safe Use of Pesticides"</p>

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<u>Identify</u> the smell of natural gas.	Same.	
<u>Describe</u> the safe use of gas appliances and equipment.	Same.	Books, Booklets, and Leaflets: No. 50. "What Everyone Should Know About Natural Gas Safety"
<u>Describe</u> some of the dangers in the use of natural gas.	Same.	Books, Booklets, and Leaflets: No. 33. <u>Safety</u> , Frames 218-240
<u>Tell</u> what to do if you discover a gas leak.	Same.	Books, Booklets, and Leaflets: No. 50. "What Everyone Should Know About Natural Gas Safety"
<u>Evaluation</u> : <u>Identify</u> the symptoms of carbon monoxide poisoning.	Same.	

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Answer</u> the question: "When can medicines be harmful?"</p> <p><u>Identify</u> some poisonous substances used around the house and on the farm.</p>	<p>Same.</p> <p>Same.</p> <p>Same.</p>	<p>Books, Booklets, and Leaflets: No. 31. "Poison and You"</p> <p>Books, Booklets, and Leaflets: No. 33. <u>Safety</u>, Frames 206-217 No. 31. "Poison and You"</p>
<p><u>Work</u> programmed exercises on precautions to take with poisonous substances.</p>	<p>Same.</p>	
<p><u>Evaluation</u>: Tell how to store possible poisonous substances to avoid danger.</p>	<p>Same.</p>	

I. Health Practices for Safety

SUPPORTING CONCEPTS:

1. Dangers of Working When Faint, Sick, Overtired, or Under the Influence of Drugs or Alcohol
2. Occupational Disease Hazards
3. Importance of Cleanliness

PERFORMANCE OBJECTIVES:

The student will

1. Name four violations of good health practices and tell how they endanger one on the job.
2. Name three occupational diseases or health hazards and the jobs with which they are associated.
3. Tell why personal cleanliness is an important safety factor when handling food and caring for children.

I. HEALTH PRACTICES FOR SAFETY 1. DANGERS OF WORKING WHEN FAINT, SICK, OVERTIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<u>Discuss</u> dangers of working when faint, sick, overtired, or using drugs. <u>Identify</u> good health practices violated. <u>Note to Teacher:</u> May wish to use transparencies with discussion-promoting statements or questions as a guide.	<u>Collect</u> pictures and <u>make</u> a chart depicting dangers of working under abnormal conditions.	<p>Magazines, newspapers, poster paper, magic markers</p> <p>Transparencies:</p> <p>No. 1. "Succeeding at Work" Series Subset 5, "Keeping Safe at Work" -- "Health Practices for Safety" and accompanying exercise</p> <p>No. 2. "Succeeding at Work" Series Subset 6, "Keeping Healthy at Work" and accompanying student exercise book</p>

I. HEALTH PRACTICES FOR SAFETY 1. DANGERS OF WORKING WHEN FAINT, SICK, OVERTIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL (CONTINUED)

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Review</u> basic good health practices. <u>Do</u> programmed exercises on maintaining good personal health.</p> <p>Become acquainted with the effects of narcotics, tobacco, and alcohol on the body. <u>Tell</u> how their use affects worker efficiency and safety.</p>	<p>Same.</p>	<p>Books, Booklets, and Leaflets: No. 28. <u>Personal Health</u>, Frames 1-355</p> <p>Books, Booklets, and Leaflets: No. 28. <u>Personal Health</u>, Frames 356-451</p> <p>Multi-media Kits: No. 1. "Let's Get Hip: Kit I, Marijuana, Goof Balls, and Pep Pills" No. 2. "Let's Get Hip: Kit II, LSD and Glue Sniffing"</p> <p>Filmstrips: No. 3. "I Never Looked At It 'till May Before"</p> <p>Film: No. 13. "Marijuana" OR: No. 14. "Marijuana--The Great Escape"</p> <p>Books, Booklets, and Leaflets: No. 44. "Total Fitness and Prevention of Accidents" (T)</p>

Describe the effects of physical fitness on being accident prone.

Evaluation: Name four violations of good health practices and tell how they endanger one on the job.

1. HEALTH PRACTICES FOR SAFETY 2. OCCUPATIONAL DISEASE HAZARDS

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Define</u> disease.</p> <p><u>Research</u> some occupational disease hazards such as the following:</p> <ol style="list-style-type: none"> (1) Black lung (2) Asphyxiation (3) Frostbite (4) Radiation sickness (5) Lead poisoning (6) Sunstroke <p><u>Discuss</u> findings.</p> <p><u>List</u> some of the local occupational diseases.</p> <p><u>Evaluation:</u> Name three occupational diseases or health hazards and the jobs with which they are associated.</p>	<p>Same.</p> <p>Bring clippings of black lung and other occupational diseases. Discuss findings with the class.</p> <p>Same.</p>	<p>Dictionary</p> <p>Encyclopedias from local library</p> <p>Newspapers</p> <p>Magazines</p>

I. HEALTH PRACTICES FOR SAFETY 3. IMPORTANCE OF CLEANLINESS

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Discuss</u> the importance of having clean clothing and a clean body in the following instances:</p> <ul style="list-style-type: none">--working with flammables such as gasoline, oil--handling food in grocery stores, restaurants, hospitals--caring for children and sick people <p><u>Listen</u> to a professional talk about cleanliness.</p>	<p><u>Learn</u> the procedures for maintaining safety clean uniforms (removing oil and grease, sanitizing) and germ-free hands.</p>	<p>Health department employee who certifies food handling establishments as to sanitary rating</p>

Evaluation: Tell why personal cleanliness is an important safety factor when handling food and caring for children.

J. First Aid and Procedure for Handling Accidents

SUPPORTING CONCEPTS:

1. How to Prepare for Emergencies
2. First Aid (Elementary Rules)

PERFORMANCE OBJECTIVES:

The student will

1. Tell at least four things which can be done to prepare for emergencies on the job.
2. Select qualified help before administering first aid in serious situations.

J. FIRST AID PROCEDURES FOR HANDLING ACCIDENTS 1. HOW TO PREPARE FOR EMERGENCIES

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Display</u> a well-stocked first aid kit. <u>Review</u> its contents for purpose and use of each item.</p> <p><u>Note to Teacher:</u> Borrow a first aid kit from a local safety equipment dealer or school office.</p>	<p><u>Observe</u> a well-stocked first aid kit.</p>	<p>First aid kit</p> <p>Books, Booklets, and Leaflets: No. 10. "Emergency Family Handbook" TV programs Filmstrip: No. 2. "First Aid as it Happens" --"Artificial Respiration"</p>

Discuss some factors which cause trouble in emergency situations.

Same. View a filmstrip on first aid.

TEACHING-LEARNING-EVALUATION STRATEGIES		RESOURCES
DISADVANTAGED	HANDICAPPED	
<p><u>Discuss</u> "things to know" and "general rules to follow" which will help an individual deal with an emergency situation. <u>Refer to posters, transparency, and booklet.</u> Include in discussion</p> <ul style="list-style-type: none"> --exercise of self-control. --location of switches on machinery. --location of fire extinguishers. --emergency phone numbers. (Make a chart of these and post near phone.) --reporting injuries and getting emergency care. --rescuing and caring for an injured person. <p><u>Evaluation:</u> Tell at least four things which can be done to prepare for emergencies on the job.</p>	<p>Same.</p> <p>Books, Booklets, and Leaflets: No. 47. "What Everyone Should Know About First Aid"</p> <p>Posters: No. 1. "Safety Poster Packet" --"Reporting Injuries" Transparencies: No. 1. "Succeeding at Work" Subset 5, "Keeping Safe at Work" --"First Aid" and accompanying student exercise</p>	<p>Same.</p>

1. FIRST AID AND PROCEDURES FOR HANDLING ACCIDENTS 2. FIRST AID (ELEMENTARY RULES)

TEACHING-LEARNING-EVALUATION STRATEGIES

RESOURCES

DISADVANTAGED	HANDICAPPED
<p><u>Note to Teacher:</u> <u>Discuss</u> the fact that this unit is not a first aid course and in no way covers the field. It is intended to be an elementary introduction to some rules to follow.</p> <p><u>Display</u> several good first aid manuals and first aid training posters.</p>	<p><u>Same.</u></p> <p><u>Books, Booklets, and Leaflets:</u> No. 10. "Emergency Family Handbook" No. 14. "First Aid Manual" No. 48. "What Everyone Should Know About First Aid" No. 13. <u>First Aid</u></p> <p><u>Books, Booklets, and Leaflets:</u> (Same as above)</p> <p>No. 2. "The ABC's of Moving Things Safely" No. 4. "The ABC's of On-the-Job Safety" No. 48. "What Everyone Should Know About First Aid"</p> <p><u>Posters:</u> No. 1. "Safety Posters Packet" --"First Aid Series"</p> <p><u>Same.</u> <u>Make a chart of elementary rules of first aid including such facts as the following:</u></p> <ul style="list-style-type: none"> --Serious emergencies requiring first aid should be handled by qualified help. <p><u>Read and discuss</u> such things as the following:</p> <ul style="list-style-type: none"> (1) Moving injured people (2) Minor cuts, scratches and abrasions (3) Small wounds <ul style="list-style-type: none"> --incision wounds --puncture wounds (4) Rescuing a victim of electric shock (5) Rescuing a victim of carbon monoxide poisoning <p><u>Do selected exercises from programmed book on first aid.</u></p>

TEACHING-LEARNING-EVALUATION STRATEGIES

RESOURCES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Demonstrations:</u> <u>Observe</u> and practice</p> <ul style="list-style-type: none"> --stopping bleeding, including nose bleeds. --giving artificial respiration (mouth-to-mouth). --treating fainting and convulsions --bandaging hands and minor cuts. <p><u>Evaluation:</u> <u>Identify</u> four types of persons who would be qualified to give first aid in serious situations.</p> <p>Same.</p>		<p>Member of rescue squad</p> <p>Nurse</p> <p>Books, booklets, and posters already mentioned</p> <p>First aid supplies</p>

MAJOR CONCERN:

K. Off-the-Job Safety

Supporting Concepts:

1. Off-Job Safety Practice and the Worker
2. Safe Driving Habits
3. Safety Practices at Home

PERFORMANCE OBJECTIVES:

The student will

1. Interpret how off-job safety affects the worker in the world of work.
2. Explain what is meant by driving defensively.
3. List four good rules for safety practices at home.

OFF-JOB SAFETY PRACTICE AND THE WORKER

TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED

Explore areas of personal activity where practicing safety is most important. As a guide for this discussion, view transparencies dealing with safety away from the job and complete accompanying student exercises.

Brainstorm: Cite examples showing how failure to follow safety rules in personal life affects the worker on the job.

Rate self as a possible accident risk.

Same

Books, Booklets, and Leaflets:
No. 19. "How Do You Rate as an Accident Risk?"

Same.

Same.

Transparencies:
No. 1. "Succeeding at Work,"
Subset 5, "Keeping Safe at Work"
---"Safety After Working Hours"
---"Safety Away from the Job"
---"Safe Rules for Driving"
and accompanying student exercise
booklet

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TEACHING-LEARNING-EVALUATION STRATEGIES

DISADVANTAGED	HANDICAPPED	RESOURCES
<p><u>Write</u> an article for the school paper entitled "Off-the Job Safety."</p> <p><u>Evaluation:</u> <u>Write</u> a short paragraph telling why one should practice safety at home as well as at work.</p>	<p><u>Prepare</u> a pictorial leaflet--"Off-the-Job Safety."</p> <p>Same.</p>	

K. OFF-THE-JOB SAFETY 2. SAFE DRIVING HABITS

TEACHING-LEARNING-EVALUATION STRATEGIES

		RESOURCES
DISADVANTAGED	HANDICAPPED	
<u>View</u> a film on defensive driving.	Same.	<p>Films: No. 3. "Before It's Too Late" No. 6. "Defensive Driving" No. 15. "Memento"</p> <p>School's driver ed. program (T) Books, Booklets, and Leaflets: No. 46. "What Every Driver Should Know" No. 56. "Your Next Accident and How to Avoid It"</p>
<u>Discuss</u> defensive driving. Consider such items as: (1) Drive at all times in such a way as to defend yourself. (2) Timing distance for safe driving--one car length for every 10 mph. (3) The faster you are traveling, the greater is the distance. (4) Drop back when people cut in, for self-defense.	Same.	<p>Daily newspaper (D/H)</p>

Collect articles from newspapers on automobile accidents. Stress value of safety belts. Look for lack of defensive driving habits in the accidents.

Complete the programmed exercises on safe driving.

Evaluation and Summary: Explain what is meant by driving defensively, i.e., accidents happen on work time and leisure time when a driver fails to defend himself.

TEACHING-LEARNING-EVALUATION STRATEGIES

RESOURCES	DISADVANTAGED HANDICAPPED	Books, Booklets, and Leaflets: No. 47. "What Everyone Should Know About Electrical Safety" No. 50. "What Everyone Should Know About Natural Gas Safety" No. 54. "You and Safety" No. 31. "Poison and You" No. 41. "Safety in Your Future"
TEACHING-LEARNING-EVALUATION STRATEGIES	DISADVANTAGED HANDICAPPED	Books, Booklets, and Leaflets: No. 26. "National Standard Checklist for Teaching Home Safety"
<p><u>Review/recall</u> what has already been learned concerning safety in the home in other sections of this unit.</p>	<p><u>Rate</u> your home for safety. <u>Note</u> to Teacher: If rating sheet has been used in study of other sections of this unit, have students complete any remaining sections. Let them evaluate whether safety practices in their homes have improved since the study of this unit. Also, have them relate the changes that have taken place.</p>	<p><u>Complete</u> the assignments on personal health and safety.</p> <p>--home accidents</p> <p>--special aspects of safety that apply to small children</p> <p>--bicycle safety</p> <p><u>Evaluation:</u> <u>Prepare</u> written and/or oral reports on:</p> <p>--(Girls) Safety rules to follow when baby sitting.</p> <p>--(Boys) Safety rules to follow when making home repairs and doing yard work.</p> <p><u>Books, Booklets, and Leaflets:</u> No. 5. "About Baby Sitting" No. 6. "Baby Sitting" No. 47. "What Everyone Should Know About Electrical Safety" No. 43. "Summer Jobs--Laborers, Home Yard, Service Stations" No. 8. <u>Do It Yourself</u> No. 51. <u>What's in the Tool Box?</u></p>

BOOKS, BOOKLETS, AND LEAFLETS	AUTHOR-SOURCE	PUBLISHER ADDRESS	DATE	COST
"The ABC's of Foot Safety"	Scriptographic	Channing L. Bete Co. Greenfield, Mass. 01301	1971	\$.25; free loan, Resource Center for SVE Teachers, 151 Taylor Ed. Bldg. Univ. of Ky. Lexington, Ky. 40506
2. "The ABC's of Moving Things Safety"	Scriptographic	See address above.	1972	Same as above
3. "The ABC's of Office Safety"	Scriptographic	See address above.	1971	Same as above
4. "The ABC's of On the Job Safety"	Scriptographic	See address above.	1971	Same as above
5. "About Baby Sitting"				
6. "Baby Sitting"	National Safety Council	425 N. Michigan Ave. Chicago, Illinois 60611		\$.10; free loan, Resource Center for SVE Teachers
7. "Catastrophe"	Liberty Mutual Insurance Co.*			Free loan, Resource Center for SVE Teachers
8. <u>Do It Yourself</u>	Arnold & Posey Frank E. Richards Pub. Co.	1971	\$1.35; same as above	
9. "Ear Protection"	Liberty Mutual Insurance Co.	324 First Street Liverpool, N.Y. 13088		Same as above
10. "Emergency Family Handbook"	American Red Cross National	Washington, D.C. OR: 1450 Newton Pike Lexington, Ky. 40505	1969	
11. "Eye Protection"	Liberty Mutual Insurance Co.			Free loan; Resource Center for SVE Teachers

*Liberty Mutual Insurance Company materials available only through Resource Center
for SVE Teachers, CDC, 151 Taylor Education Bldg., University of Ky., Lexington, Ky. 40506

BOOKS, BOOKLETS, AND LEAFLETS	AUTHOR-SOURCE	PUBLISHER ADDRESS	DATE	COST
12. "Falls of Persons"	Liberty Mutual Insurance Co.			Free loan, Resource Center for SVE Teachers
13. <u>First Aid</u>	LeRoy Bolden, Jr.	Behavioral Research Laboratories Box 577 Palo Alto, Calif. 94302	1972	\$14.87 for specimen set; free loan, Resource Center for SVE Teachers
14. "First Aid Manual"	American Medical Association	AMA Dept. of Health Ed. 535 N. Dearborn St. Chicago, Ill. 60610	1969	\$1.15 each
15. "Foot Protection"	Liberty Mutual Insurance Co.			Free loan, Resource Center for SVE Teachers
16. "Hand Protection"		Same as above		Same as above
17. "Head Protection"		Same as above		Same as above
18. "Horseplay"		Same as above		Same as above
19. "How Do You Rate As An Accident Risk?"	Scriptographic	Channing L. Bete Co. Greenfield, Mass. 01301		\$2.25; free loan, Resource Center for SVE Teachers
20. "Inventory of Safety Check Points in Business Machines Classrooms and Offices"	National Safety Council	425 N. Michigan Ave. Chicago, Ill. 60611		about \$1.10 each; free loan, Resource Center for SVE Teachers
21. "A Kit O' Tips for Youth and Their Employers" (No. 0-787-641)	U.S. Dept. of Labor	Supt. of Documents Govt. Printing Office Washington, D.C. 20402	1965	\$1.25

BOOKS, BOOKLETS, AND LEAFLETS	AUTHOR-SOURCE	PUBLISHER ADDRESS	DATE	COST-
22. "Ladders"	Liberty Mutual Insurance Co.			Free loan, Resource Center for SVE Teachers
23. "Leg Protection"	Same as above			Same as above
24. "Making Machines Safer"	Same as above			Same as above
25. "Material Handling"	Same as above			Same as above
26. "National Standard Checklist for Teaching Home Safety"	Am. Voc. Assoc. and National Safety Council	425 N. Michigan Ave. Chicago, Ill. 60611	1972	\$1.80 per packet of 25; free loan, Resource Center for SVE Teachers
27. "Occupational Housekeeping"	LeRoy Bolden, Jr.	Behavioral Research Laboratories Box 577 Palo Alto, Calif. 94302		Free loan, Resource Center for SVE Teachers
28. <u>Personal Health</u>				Free loan, Resource Center for SVE Teachers
29. "Personal Protective Equipment"	Liberty Mutual Insurance Co.			Free loan, Resource Center for SVE Teachers
30. <u>Plans for Living</u>	Hudson & Weaver			Free loan; Resource Center for SVE Teachers
31. "Poison and You"	Scriptographic	Channing L. Bete Co. Greenfield, Mass. 01301	1972	\$.25; free loan, Resource Center for SVE Teachers
32. "Protect Your Hands"			1971	Same as above

BOOKS, BOOKLETS, AND LEAFLETS	AUTHOR-SOURCE	PUBLISHER ADDRESS	DATE	COST
33. <u>Safety</u>	LeRoy Bolden, Jr.	Behavioral Research Laboratories Box 577 Palo Alto, Calif. 94302	1972	Free loan, Resource Center for SVE Teachers
34. "Safety in the Auto Shop"	National Safety Council	425 N. Michigan Ave. Chicago, Ill. 60611	Revised	Same as above
35. "Safety in the Electrical Shop"		See address above.	Revised	Same as above
36. "Safety in the Farm Mechanics Shop"		See address above.	Revised	Same as above
37. "Safety in the General Metal Shop"		See address above.	Revised	Same as above
38. "Safety in the Machine Shop"		See address above.	Revised	Same as above
39. "Safety in the Sheet Metal Shop"		See address above.	cp. 1957	\$.68; minimum order of 10; free loan, Resource Center for SVE Teachers
40. "Safety in the Woodshop"		See address above.	Revised	Same as above
41. "Safety in Your Future"	U.S. Dept. of Health	Bureau of Labor Standards	1966	\$.15; free loan, Resource Center for SVE Teachers
42. "Safety on Part-time Jobs... Food Handling"	National Safety Council	425 N. Michigan Ave. Chicago, Ill. 60611		about \$.10 each; free loan, Resource Center for SVE Teachers
43. "Summer Jobs--Laborers, Home Yard, Service Stations"		See address above.		Same as above

BOOKS, BOOKLETS, AND LEAFLETS	AUTHOR-SOURCE	PUBLISHER ADDRESS	DATE	COST
44. "Total Fitness and Prevention of Accidents"	National Ed. Assoc.	1201 16th St. NW Washington, D.C. 20036		Free loan, Resource Center for SVE Teachers
45. "Welding and Cutting Safely"	National Safety Council	425 N. Michigan Ave. Chicago, Ill. 60611	Revised	about \$.10 each; free loan, Resource Center for SVE Teachers
46. "What Every Driver Should Know"	G.E. Company	Nela Park Cleveland, Ohio 44112		Free loan, Resource Center for SVE Teachers
47. "What Everyone Should Know About Electrical Safety"	Scriptographic	Channing L. Bete Co. Greenfield, Mass. 01301	1971	\$.25; free loan, Resource Center for SVE Teachers
48. "What Everyone Should Know About First Aid"		Same as above. See address above.	1972	Same as above
49. "What Everyone Should Know About Lifting"		Liberty Mutual Insurance Co.		Free loan, Resource Center for SVE Teachers
50. "What Everyone Should Know About Natural Gas Safety"	Scriptographic	Channing L. Bete Co. Greenfield, Mass. 01301	1971	\$.25; free loan, Resource Center for SVE Teachers
51. <u>What's in the Tool Box?</u>	Frank Jubara	Mafex Associates	1971	\$.25; free loan, Resource Center for SVE Teachers
52. "Where's the Fire?"		Liberty Mutual Insurance Co.	1948	Free loan, Resource Center for SVE Teachers

BOOKS, BOOKLETS, AND LEAFLETS	AUTHOR-SOURCE	PUBLISHER ADDRESS	DATE	COST
53. "Women in Industry"	Liberty Mutual Insurance Co.	Channing L. Bete Co. Greenfield, Mass. 01301	1971	\$.25; free loan, Resource Center for SVE Teachers
54. "You and Safety"	Scriptographic	Deerfield, Mass. 01342		\$.14
55. "Your Hands Are for Living"	Droy Publications	Channing L. Bete Co. Greenfield, Mass. 01301	1971	\$.25; free loan, Resource Center for SVE Teachers
56. "Your Next Accident and How to Avoid It"	Scriptographic			

CURRICULUM GUIDES	AUTHOR-SOURCE	PUBLISHER ADDRESS	DATE	CCSE
1. "Safety in Trade and Industrial and Technical Education"	John C. Thomas Curriculum Specialist	Curriculum Development Center University of Kentucky Lexington, Ky. 40506	1974	Free

FILMS (16MM)	AUTHOR-SOURCE	ADDRESS	LENGTH	COST
"Bare Minimum"	Louisville Safety Council	209 W. Market St. Louisville, Ky.	10 min.	Free loan; borrower picks up and return (local only)
2. "Be a Pro"	Liberty Mutual Insurance Co.		18 min. color	Free; borrower pays return postage
3. "Before It's Too Late"	Bell Telephone Co.	521 W. Chestnut St. Louisville, Ky. 40202	14 min.	Free; borrower pays return postage
4. "Boring and Drilling"				Free loan, Resource Center for SVE Teachers
5. "Chisels"	AAA Auto Club	Local AAA Club	15 min.	Same as above
6. "Defensive Driving"	Louisville Safety Council	209 W. Market St. Louisville, Ky.	20 min.	Free
7. "Falls Are No Fun"	Bell Telephone Co.	Local Bell or Louisville	12 min. color	Borrower must pick up and return.
8. "Fire--Cause for Alarm"	Louisville Safety Council		15 min.	Free loan; pay return postage
9. "For Safety's Sake"				Free
10. "How to Have an Accident at Work"	Walt Disney Educational Materials Co.	666 Busse Hwy. Park Ridge, Ill. 60068	16 min.	Rental
11. "Knowing's Not Enough"	#SN 485	U.S. Steel Corp. Chicago Film Center 208 S. LaSalle St. Chicago, Ill. 60690	29 min. color	Free loan; borrower pays return postage.

FILMS (16MM)	AUTHOR-SOURCE	ADDRESS	LENGTH	COST
"Layout Tools for Metal Work"				Free loan, Resource Center for SVE Teachers
13. "Marijuana"	Louisville, Free Public Library Louisville Bd. of Education	4th & York Louisville, Ky.	33 min. color	Free loan; borrower must pick up and return. OR: Rental from Audio Visual Services, Porter Bldg., U of K, Lexington, Ky. 40506 Rent: \$10
14. "Marijuana--The Great Escape"	Ky. Dept. of Mental Health	Office of Preventive Programs P.O. Box 718 Frankfort, Ky. 40601	20 min.	Free loan
15. "Memento"	Bell Telephone Co.	521 Chestnut Louisville, Ky. 40202	10 min. color	Free
16. "A New Way to Lift"	Louisville Safety Council 585-3344	209 W. Market St. Louisville, Ky. 40202	10 min.	Borrower must pick up and return.
17. "Not Even One Chance"	Louisville Safety Council	209 W. Market St. Louisville, Ky.	10 min. B/W	Free loan; borrower picks up and returns
18. "Pesticides in Focus"	Shell Oil Co.	Shell Film Library 450 N. Meridian St. Indianapolis, Ind. 46204	21 min.	Free loan; borrower pays return postage
19. "Point of No Return"	Louisville Safety Council	209 W. Market Louisville, Ky.	15 min.	Free

FILMS (16mm)	AUTHOR-SOURCE	ADDRESS	LENGTH	COST
"The River Must Live"	Shell Oil Co.	Shell Film Library See address above.	21 min.	Free loan; borrower pays return postage
"Safe Side Clyde"	Motion Picture Service	U.S. Dept. of Agriculture Washington, D.C. 20250	16 min.	Free loan
21. "Safety Doesn't Happen"	Louisville Safety Council	See address above.	Free	
22. "Safety Is In Order"	Louisville Safety Council	See address above.	Free	
23. "Safe Use of Pesticides"	Audio Visual Ser- vices, U of K Porter Building Lexington, Ky. 40506		21 min. color	Rental, \$1.00
24. "Slips and Falls"	Bell Telephone Co. OR: Audio-Visual Services, UK	501 W. Chestnut Rm. 110, Louis- ville, Ky. 40202	10½ min.	Free loan; borrower pays return postage
25. "School Shop Safety"	BFA			Free loan, Resource Center for SVE Teachers
26. "You Can Handle It"	Louisville Safety Council	209 W. Market St. Louisville, Ky.	10 min.	Borrower picks up and returns.
27.				

FILMS (8MM--SINGLE CONCEPT)	AUTHOR-SOURCE	ADDRESS	LENGTH	COST
"Cleanliness and Safety: Kitchen" (with sound)	Sterling Educational Films			
"Cleanliness and Storage: Cooking" (with sound)	Sterling Educational Films			
2. "Wood: Hand and Power Tools" --"The Circular Saw" --"The Electric Handsaw" --"The Jig Saw" --"The Lathe: Center-Turning" --"Making a Mortise"	Encyclopedia Britannica			
3.				

FILMSTRIPS	AUTHOR-SOURCE	ADDRESS	LENGTH	COST
"Fire and Fire Prevention" --"Causes and Preventions of Fire" --"Fire and Fire Protection" --"Putting Out Fires and Fire Education"	Eye Gate House	146-01 Archer Ave. Jamaica, N.Y. 11435		Free loan
2. "First Aid as it Happens" --"Artificial Respiration"	Eye Gate House OR: Resource Center for SVE Teachers	See address above. 151 Taylor Ed. Bldg. Univ. of Ky. Lexington, Ky. 40506		Free loan
3. "I Never Looked at it That Way Before"	Guidance Associates OR: Resource Center for SVE Teachers (See address above.)	Pleasantville, NY	2 filmstrips 2 records	\$35.00
4. "Safety at Work" --"Protecting Your Eyes" --"Using Hand and Bench Tools" --"Operating Power Machines"	Scott, Ed. Div. OR: Resource Center for SVE Teachers	See address above.		Free loan

MULTI-MEDIA KITS	PUBLISHER - ADDRESS	DATE	COST
1. "Let's Get High: Kit I, Marijuana, Goof Balls and Pep Pills"	Free loan, Resource Center for SVE Teachers 151 Taylor Educ. Bldg. Univ. of Ky. Lexington, Ky. 40506		
2. "Let's Get High: Kit II, LSD and Glue Sniffing"	Same as above		
3. "International Harvester Farm Equipment Safety Teaching Kit"	Editor IH Farm Advertising Dept. International Harvester 401 N. Michigan Avenue Chicago, Illinois 60611		

POSTERS	"Safety Posters Packet" (series of safety posters collected from different sources)
AUTHOR-SOURCE	
PUBLISHER ADDRESS	
DATE	
COST	Free loan, Resource Center for SVE Teachers

TRANSPARENCIES	AUTHOR-SOURCE	ADDRESS	LENGTH	COST
<p>1. "Succeeding at Work" Series --Subset 5, "Keeping Safe at Work"</p> <p>2. "Succeeding at Work" Series --Subset 6, "Keeping Healthy at Work"</p>	<p>Hudson & Weaver United Transpar- encies, Inc.</p> <p>Same as above</p>	<p>P.O. Box 688 Binghamton, NY 13902</p>		<p>Free loan, Resource Center for SVE Teachers</p> <p>Free loan, Resource Center for SVE Teachers</p>

DEFINITIONS

An unsafe act is any deviation from a generally recognized safe way of doing a job that may cause or contribute to an accident.

An unsafe condition is any element in an employee's environment that may cause or contribute to an accident. These conditions include tools, equipment, machinery, materials, structures, atmosphere, etc.

An accident may be described as an unexpected happening, usually in the form of an abrupt contact between a person and an object, substance, or exposure in the surroundings.

SUGGESTED CASE SITUATION

MR. MOP BUCKET

In Mrs. James' class a demonstration is being given by two students, Bob and John, showing the correct techniques to clean a tile floor. With all materials collected the students began their performance. About mid-point of a mopping scene the fire alarm sounded. Bob and John were the first to exit the room, leaving a mop bucket with water and a mop in the middle of the floor....

SUGGESTED HAND AND BENCH TOOLS

- Hammers
- Chisels
- Saws
- Nails
- Screwdrivers
- Files
- Scribers
- Knives
- Compressed Air
- Soldering irons
- Drills
- Grinding wheels
- Pointed tools

SUGGESTED TIPS FOR HAND TOOL SAFETY

- a. Select the right tool for the job.**
- b. Keep tools clean and in repair.**
- c. Keep tools stored properly.**
- d. Apply correct techniques when using tools.**
- e. Observe precautions.**

TRACTOR SAFETY INFORMATION SHEET

A. Need for safe tractor operation

1. According to the National Safety Council, agriculture is the third most hazardous occupation.
2. The National Safety Council says "27% of all farm accidents are tractor accidents."
3. Six out of ten total tractor accidents are due to overturns.
4. One-third of the tractor accidents are due to involve people under 25 years of age.
5. Tractors are the number one farm accident killer.
6. Over a thousand people are killed in tractor accidents in the U.S. each year.
7. Safe tractor operation will definitely reduce the number of farm deaths.

B. Factors that cause farm tractor accidents

1. Ignoring safety precautions
2. Operator too young or too old
3. Operator not familiar enough with tractor
4. Operating tractors on rough terrain
5. Traveling too fast
6. Operator too tired
7. Operating tractor at night
8. Faulty service procedures
9. Failure to recognize possible tractor hazards

C. Kinds of farm tractor accidents

1. Tractor overturns
 - (a) Backward upset--fatal 66% of the time
 - (b) Side upset--fatal 33% of the time
2. Tractor falls
3. Individuals run over
4. Tractor-vehicle collisions

5. Power take-off entanglements
6. Tractor fires

D. Ways of preventing farm tractor accidents

1. Observe tractor safety rules.
2. Provide protection for operator if overturn occurs such as roll bar, crush-proof cab, seat belt, etc.
3. Allow only capable, trained and experienced people to operate tractors.
4. Select safe operation speeds for all jobs.
5. Drive cautiously.
6. Hitch only to the drawbar.
7. Add front-end weight when pulling heavy loads up extreme slopes.
8. Use the tractor only for the jobs it was designed to do.
9. Operate tractor only when physically fit.
10. Be aware of physical impairments that may cause accidents such as the following:
 - (a) Poor eyesight
 - (b) Deafness
 - (c) Advancing age
 - (d) Other handicaps
11. Never allow small children to ride on tractors pulling equipment.
12. Set wheels as wide apart as practical for the job.
13. Always operate your tractor according to recommendations in the operator's manual.

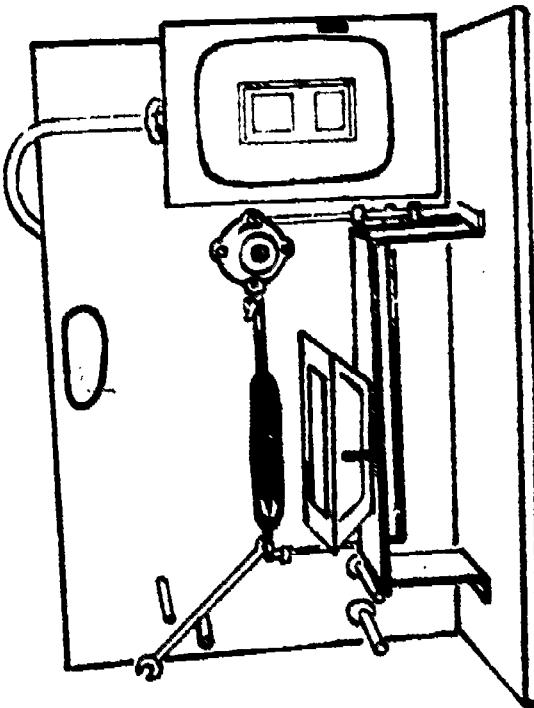
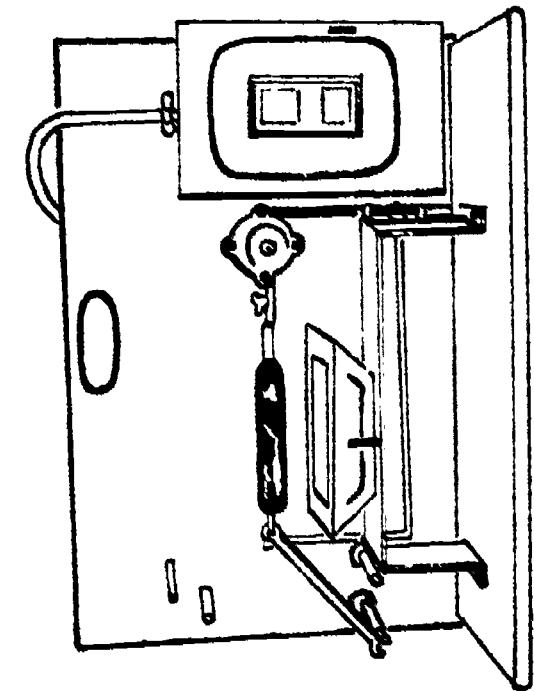
TRACTOR SAFETY EXERCISE SHEET

1. Look for tractor accident reports in newspapers. Develop a bulletin board display of these accidents.
2. View the farm tractor safety transparencies.
3. Discuss tractor accidents you have witnessed. List ways these accidents could have been prevented.
4. Develop a list of safety precautions to follow when operating a farm tractor. Make a composite list for the class on the chalkboard.
5. Find out the number of accidents caused each year by improper use of farm tractors. List situations which would cause tractor accidents.
6. Discuss the reasons for using the slow-moving vehicle symbol.

FLESH FRY

Robert Koy, Chrysler Airtemp Plant, Bowling Green, Kentucky, created the device below to show what electricity can do to human flesh. This idea was published in the June, 1972 National Safety News.

The wiener on the gadget simulates human flesh. A short circuit is created by allowing a tool to break a hair-sized wire on two terminals (left of the supporting bracket). When the master switch is turned on, the wiener fries. Then a spring-loaded dowel is removed from the rear of the board which permits the wrench to fall. This short-circuits the tiny wire and gives off a brilliant flash. At that time, the master switch is turned off and locked out. (See illustration on the right.)



Sprayer Fumes Fatal To Youth

A 19-year-old De Mossville, Ky., man died to-day when he was overcome by fumes while cleaning out a crop sprayer on the Trimble farm on Hume-Bedford Road at Greenwich Pike.

Assistant Coroner William McCarney said the young man's name would not be released until after his family had been notified later today.

McCarney said the young man was dead when he arrived at the Trimble place about 11:15 a.m. The victim had entered the crop sprayer situated in a barn through a portal in the top to clean it, McCarney said; the youth had painted the interior only Friday, the coroner said.

Mr. McCarney said he thought the youth was overcome by fumes. "Aspirated and choked to death."

Two Asphyxiated By Gas In Sewer Lift

JACKSON, Ky. — A 27-year-old Jackson man died Friday night attempting to rescue a fellow worker who had been asphyxiated by methane gas in the city sewer pumping station and a third man barely escaped death trying to save the other two.

Breathitt County Coroner Dean Spencer ruled accidental the deaths of Paul Ray Goff, 27, and Charles Edward Frazier, 27, also of Jackson, employees of the city water and sewer works.

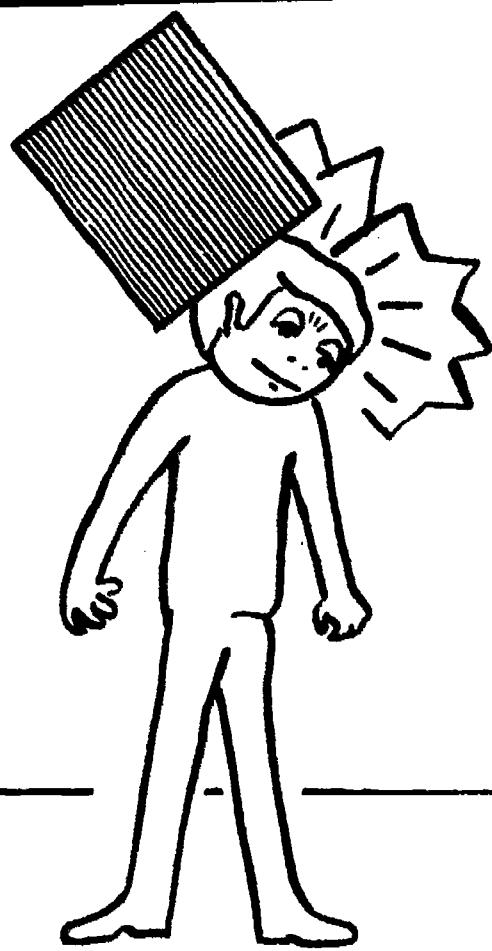
Almost overcome trying to rescue them from the sewer pump station into which they

had fallen was Larry Plummer. Coroner Spencer gave this account:

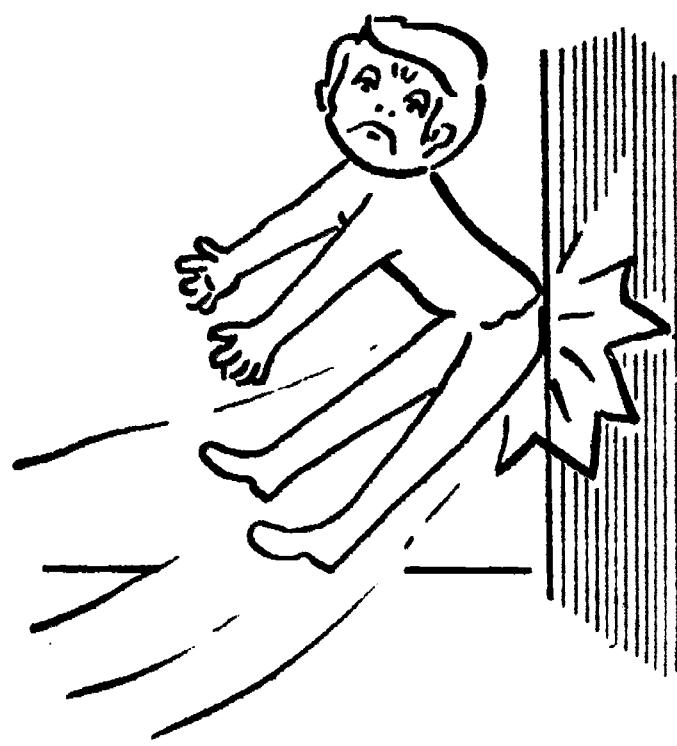
The pumping station, at the edge of the river, had been malfunctioning, possibly because of excessive rainfall, and Goff and Frazier had been among a crew working at the site most of Friday under the direct of Dailey Sallee, superintendent of the water works.

The gasoline pump in the bottom of the "lift station," a structure 37 feet tall and three feet in diameter, had run out of fuel. Goff and Frazier left (see Col. 4, Back Page, This Section)

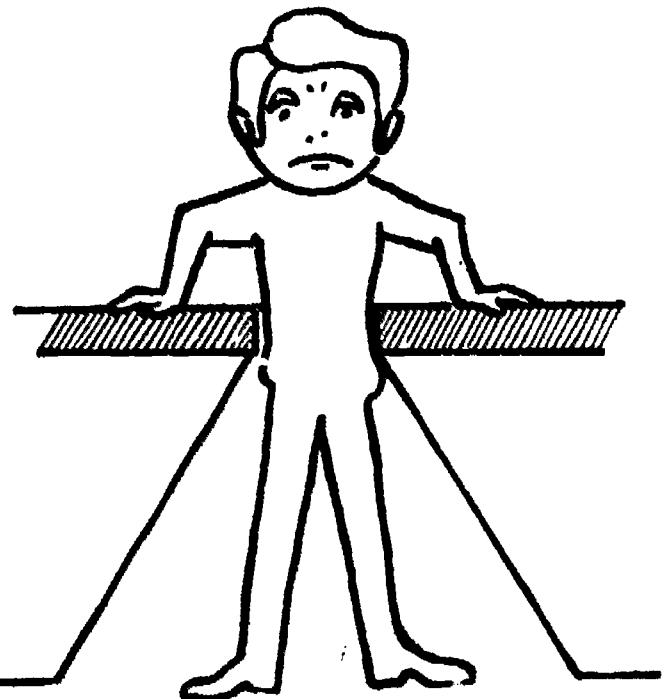
BASIC TYPES OF ACCIDENTS



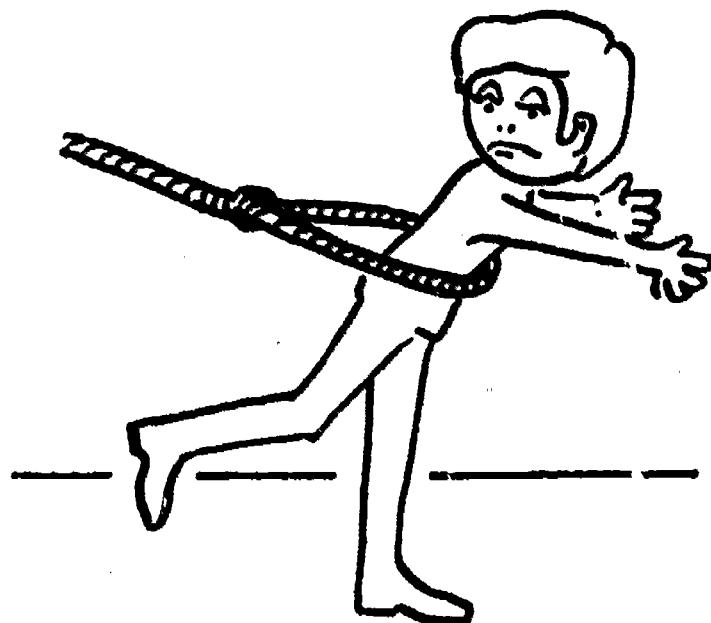
Struck by



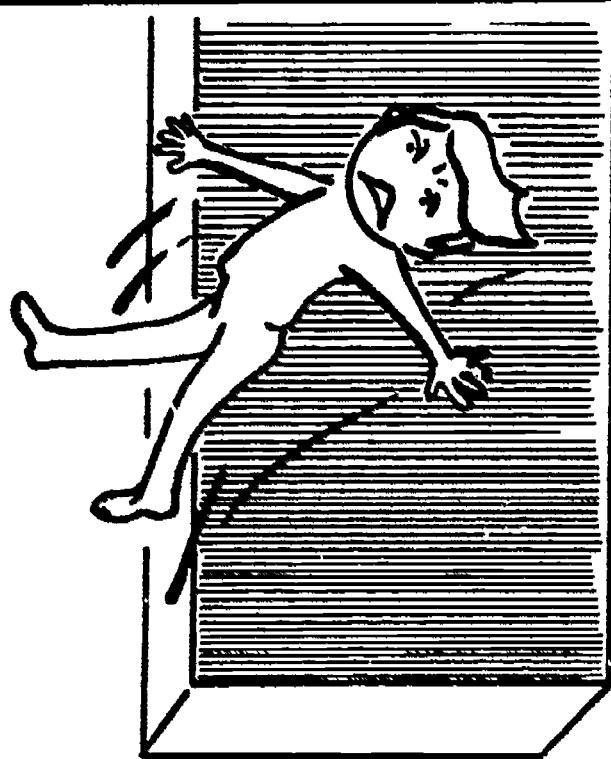
Struck against



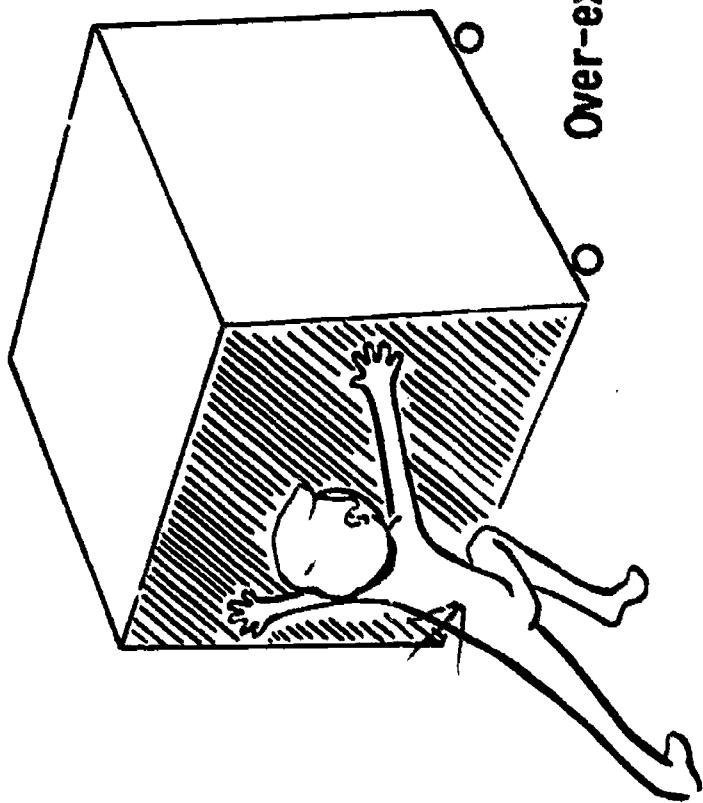
Caught between



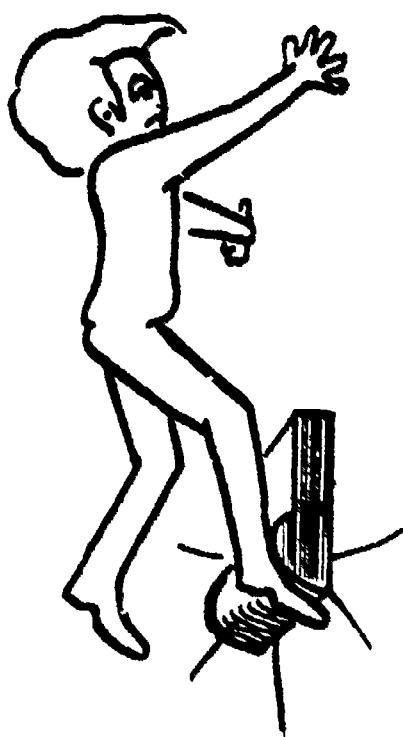
Caught in



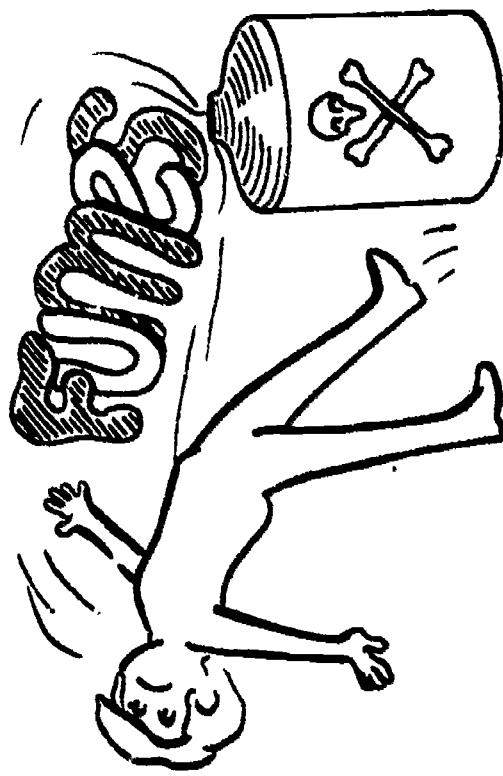
Fall to below



Over-exertion



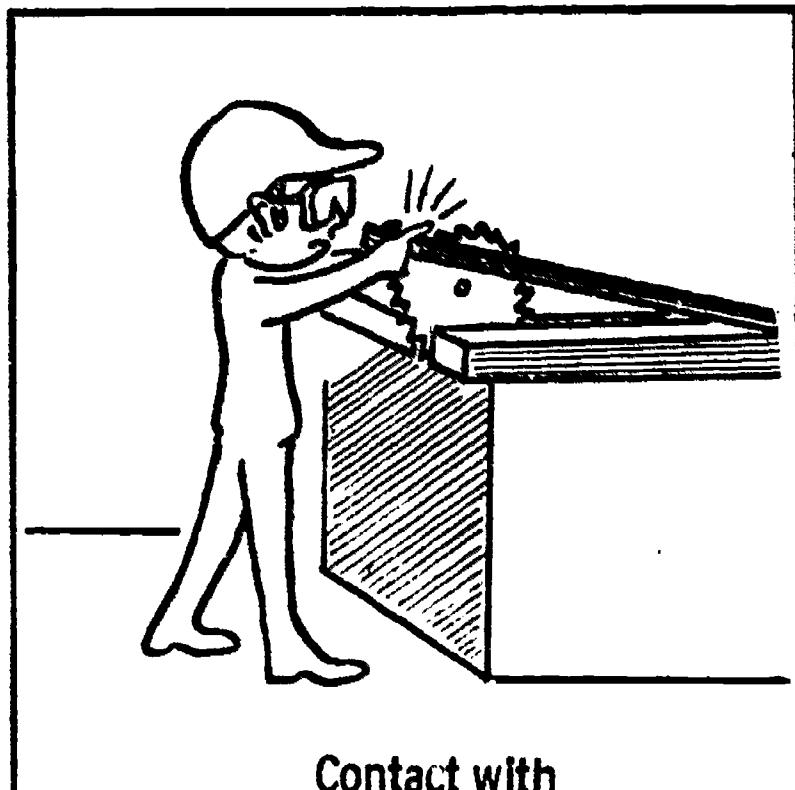
Fall on foot level



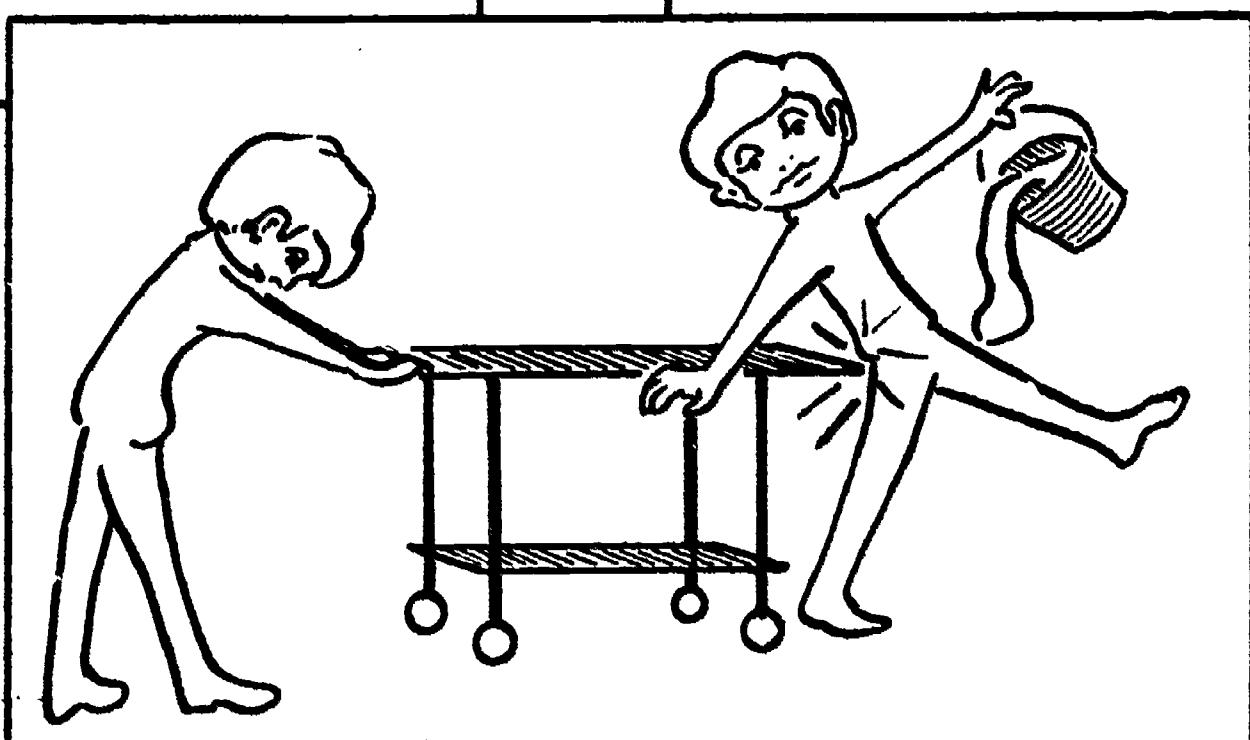
Exposure



Caught on

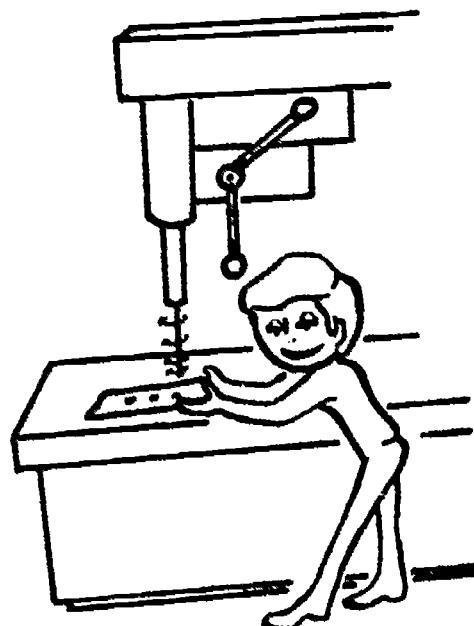


Contact with

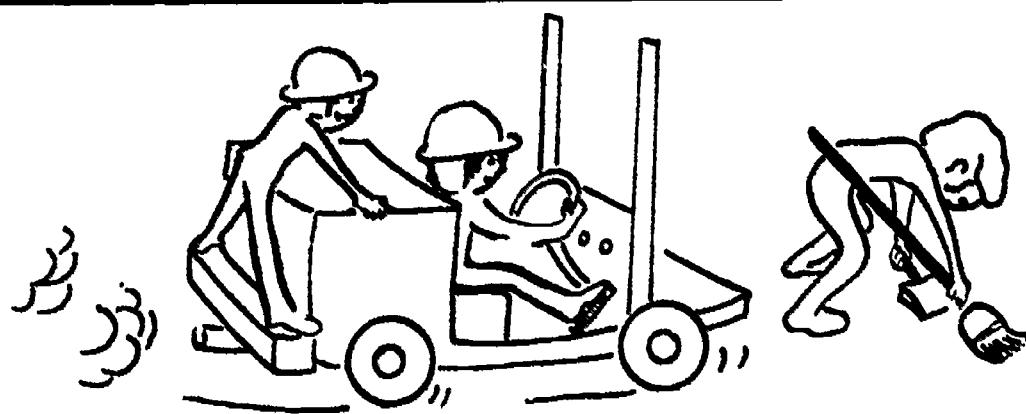


Contacted by

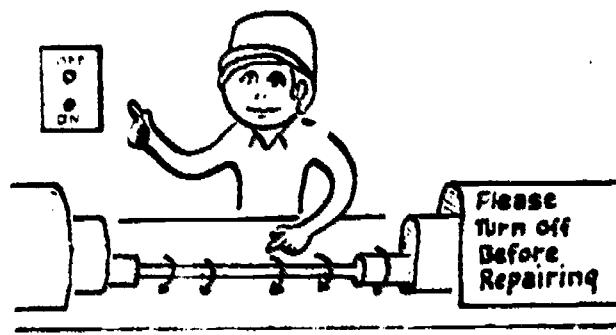
BASIC TYPES OF UNSAFE ACTS



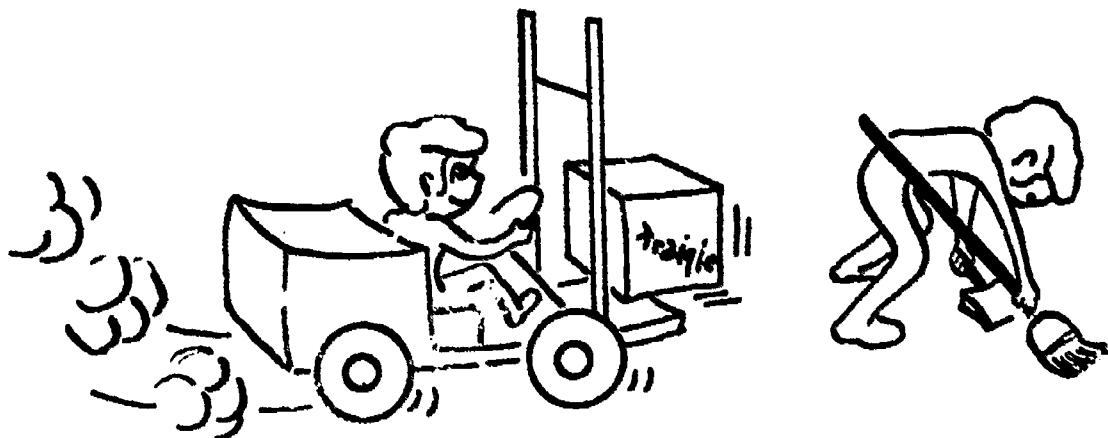
Using tools or equipment unsafely



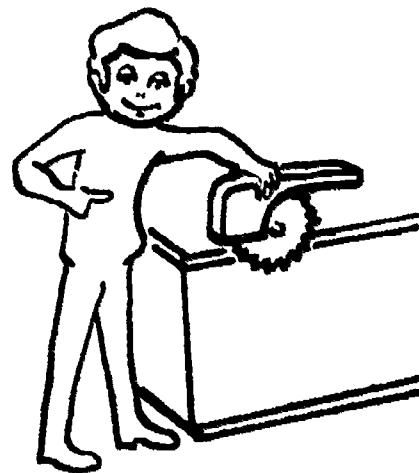
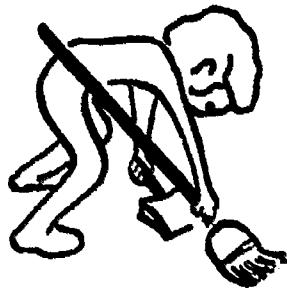
Taking an unsafe position or posture



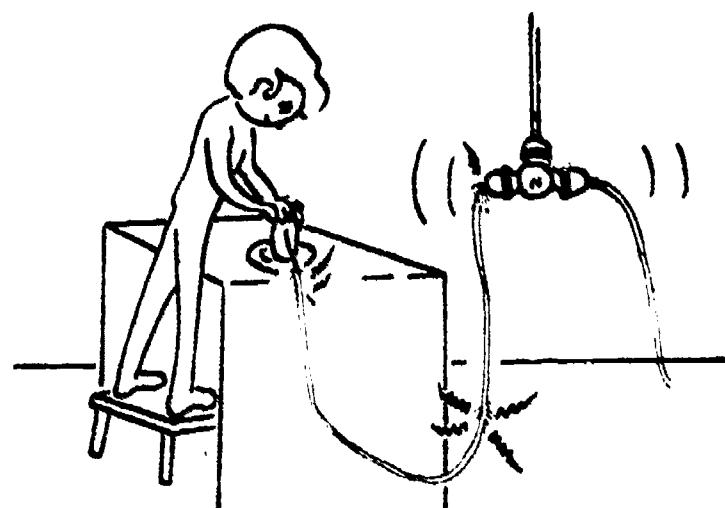
Servicing moving, energized, or otherwise hazardous equipment



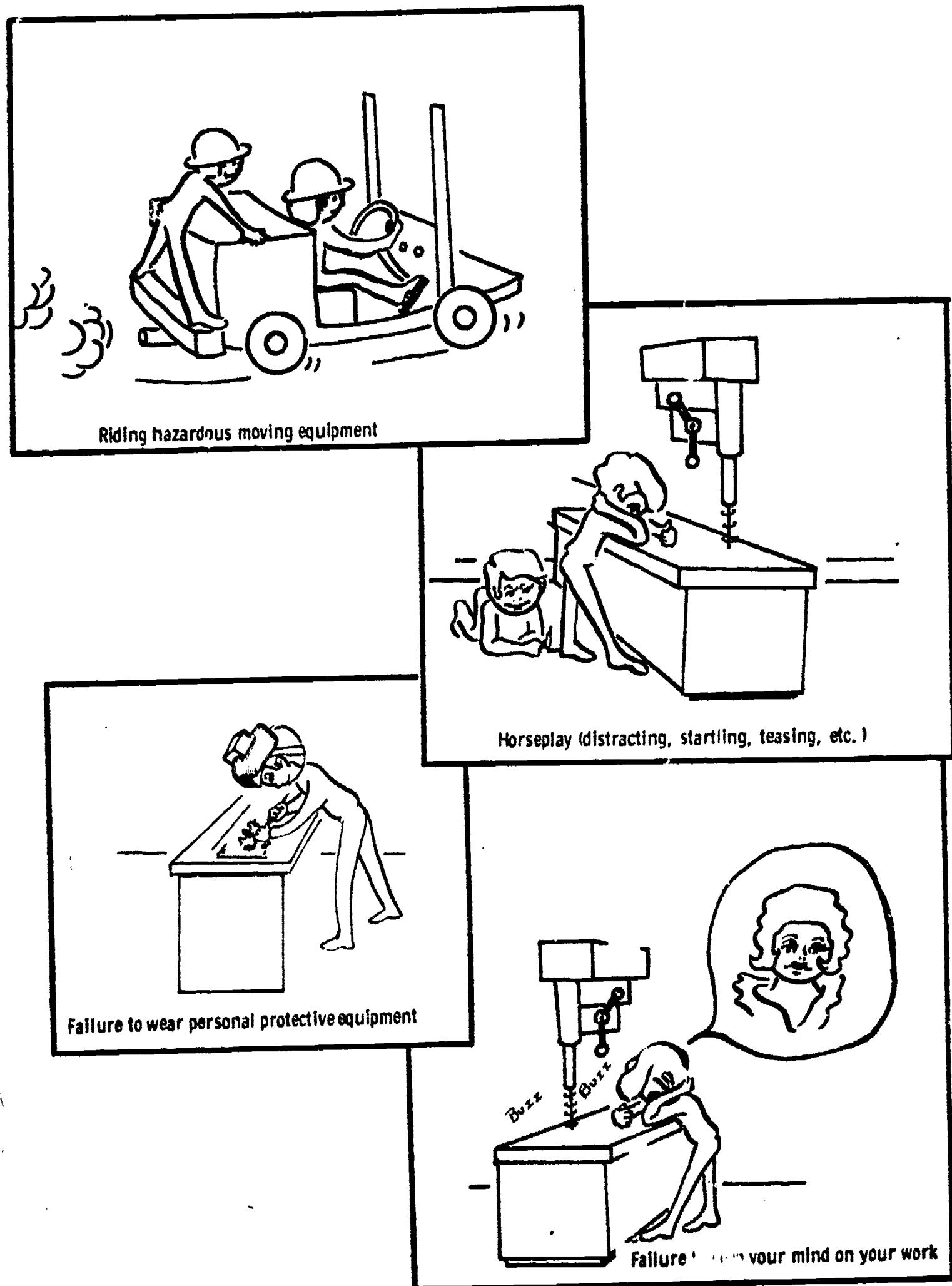
Failure to warn or signal as required

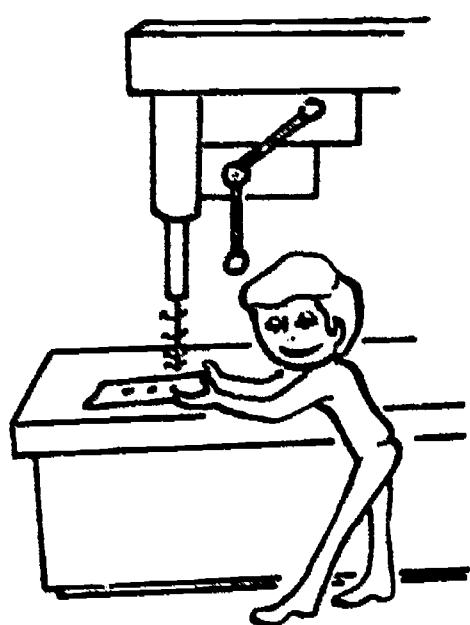


Removing or making safety devices inoperative

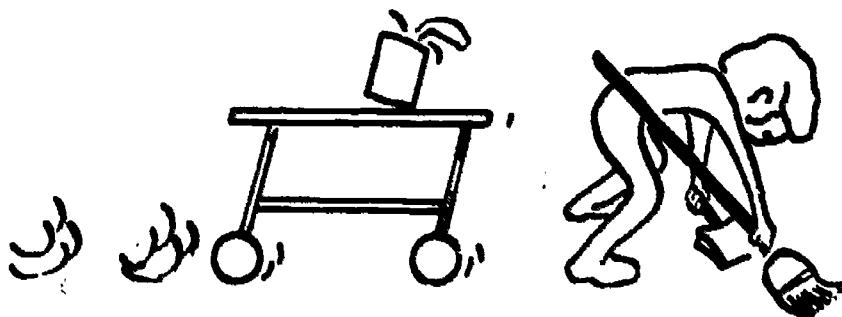


Knowingly using defective tools or equipment





Operating or using equipment without authority

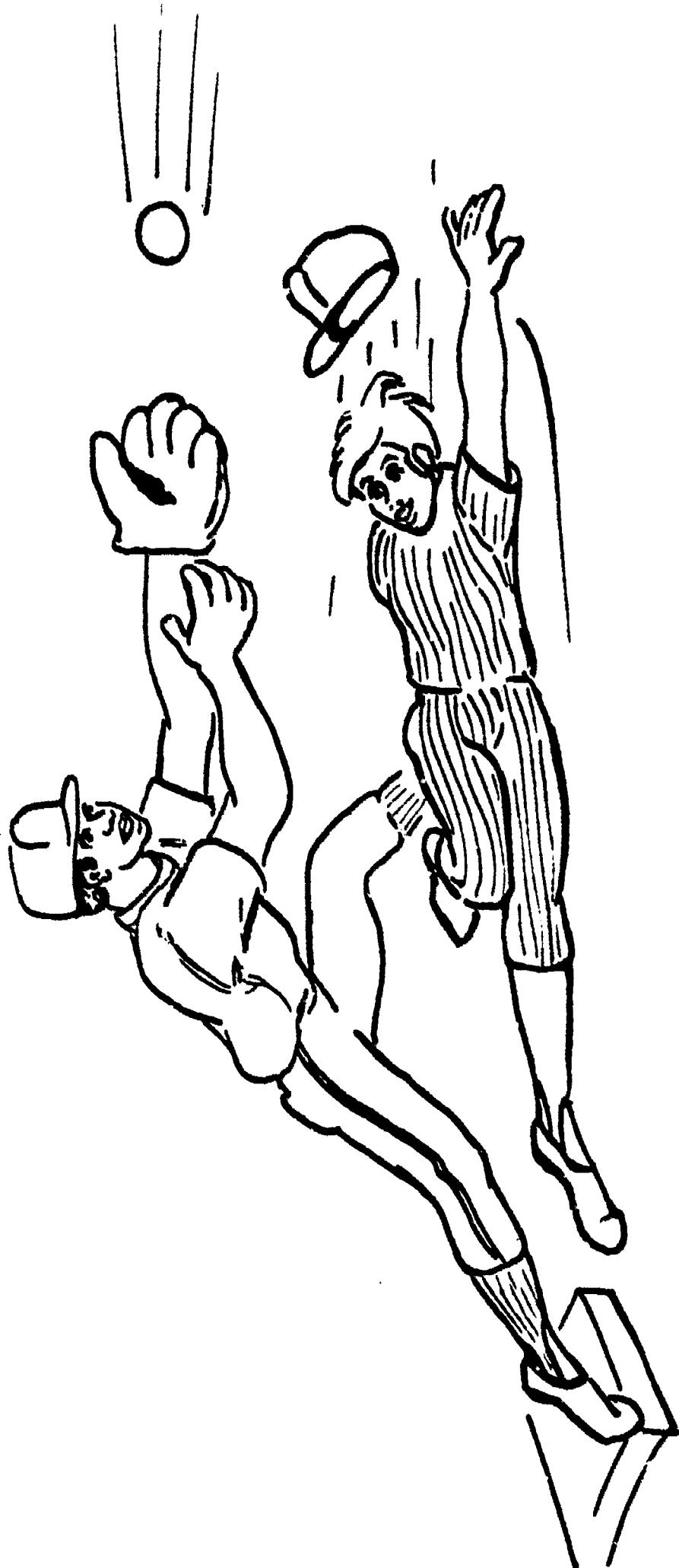


Failure to be alert to unexpected movement

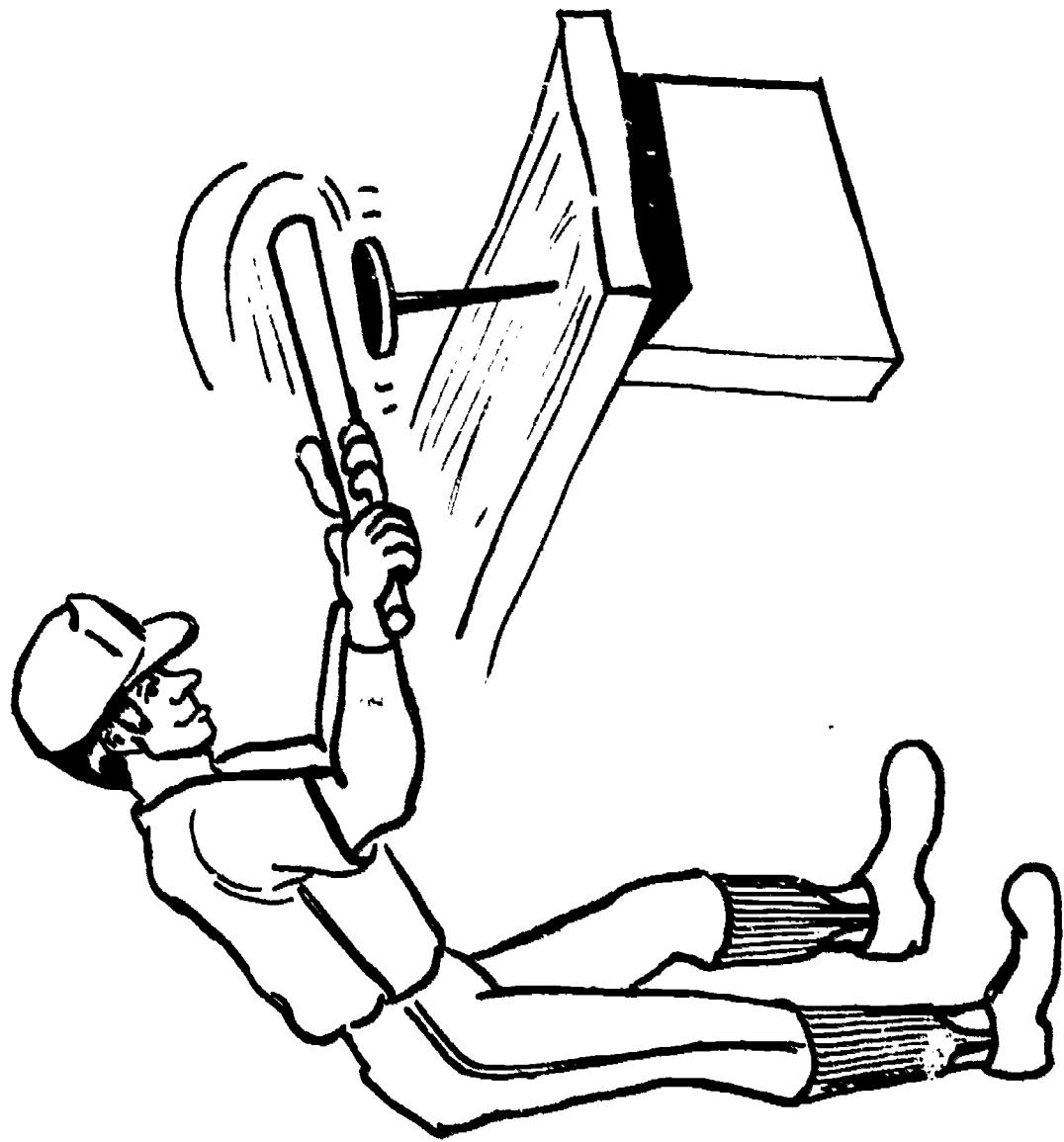


Operating or working at an unsafe speed

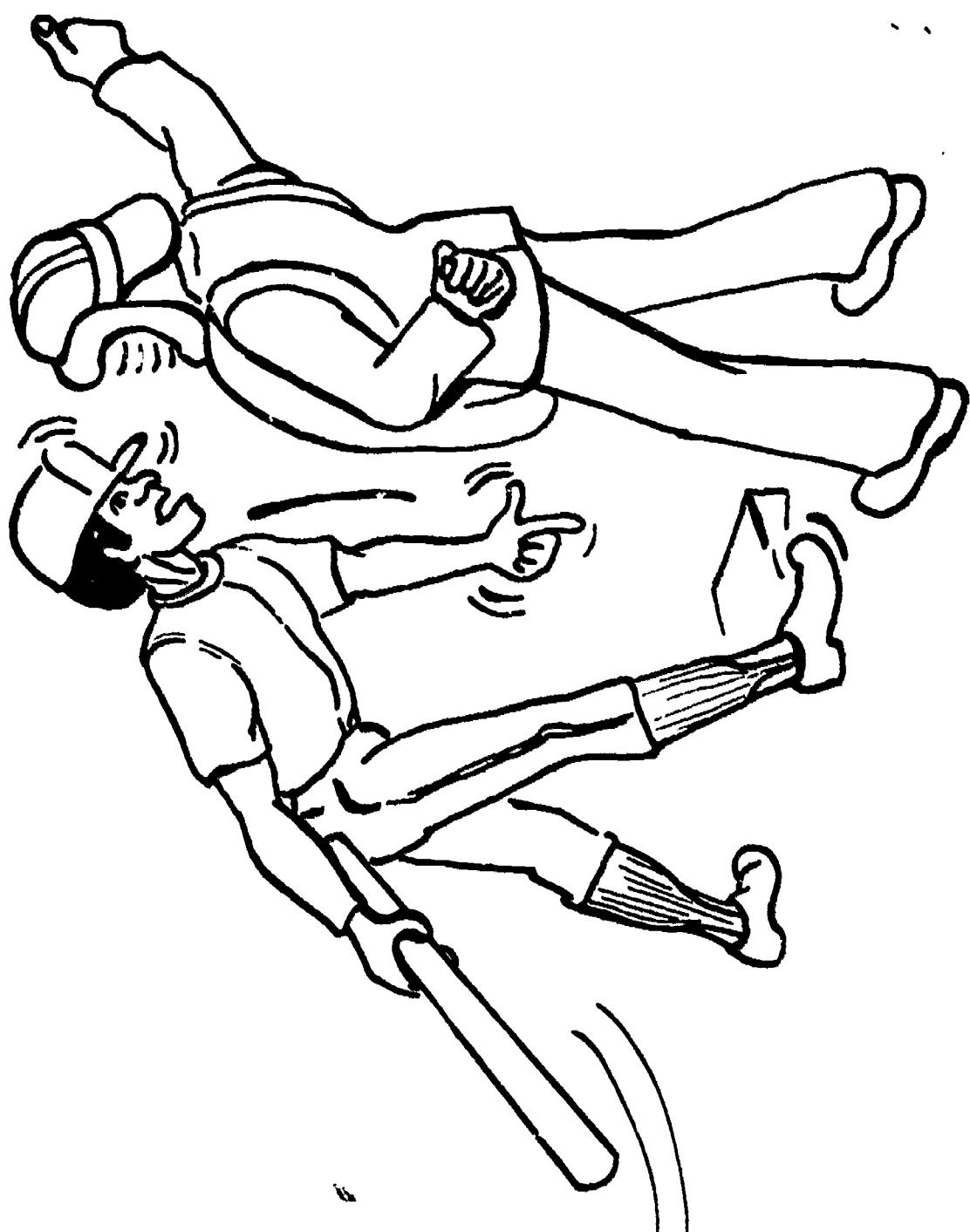
IMPATIENCE



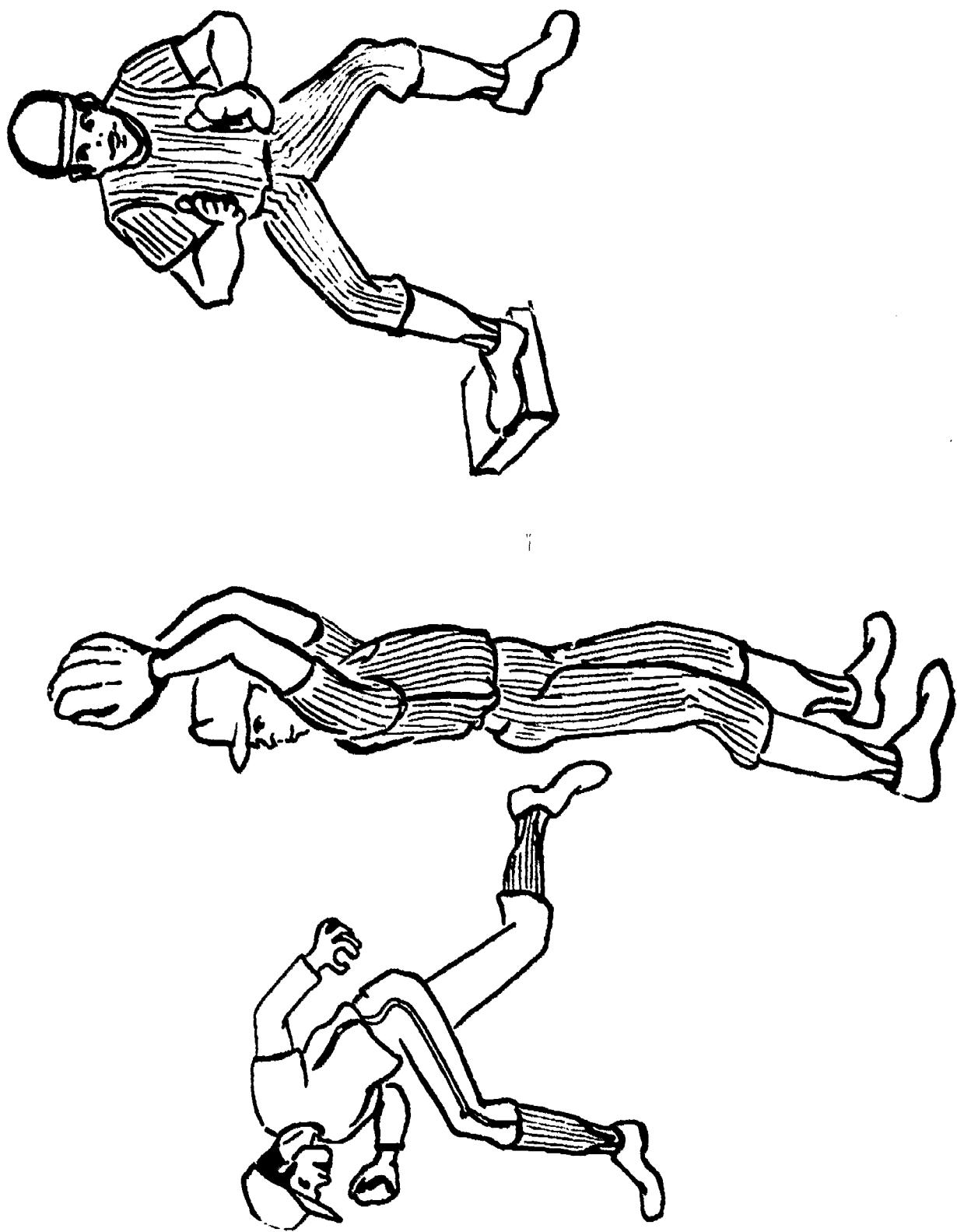
IMPROVISING



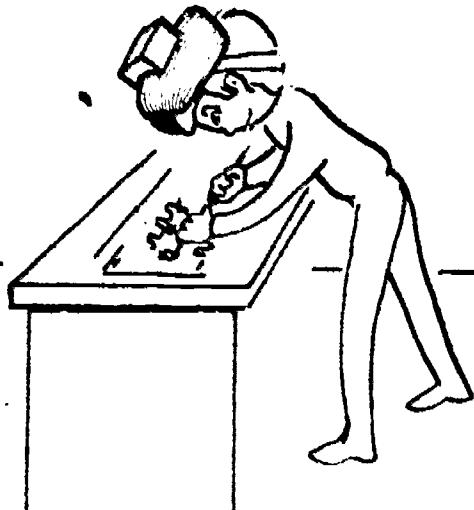
IMPULSIVENESS



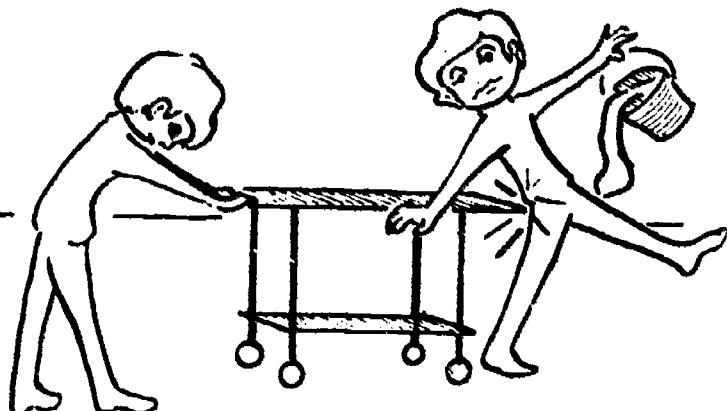
IMPUUNITY



BASIC TYPES OF UNSAFE CONDITIONS



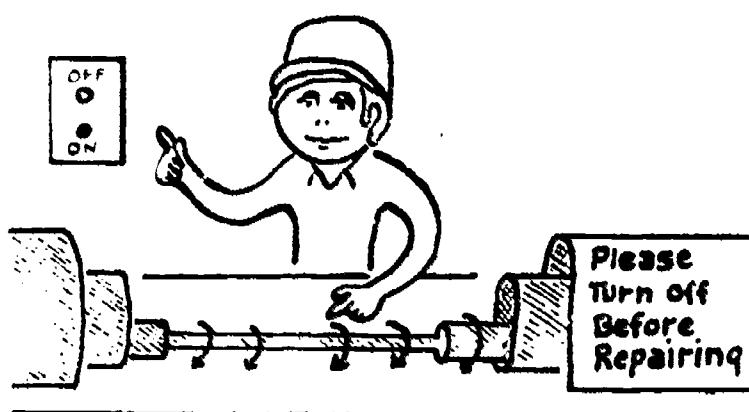
Lack of guards and safety devices



Lack of warning systems



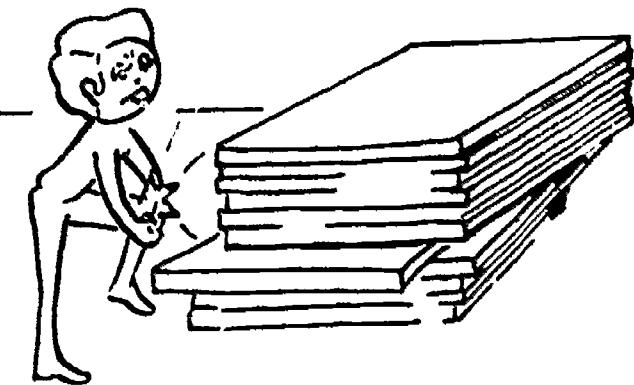
Fire and explosion hazards



Unexpected movement hazards



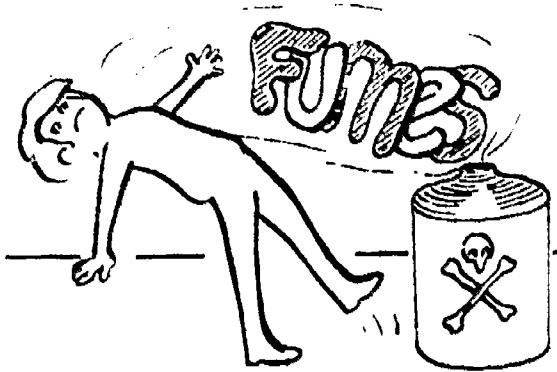
Poor housekeeping hazards



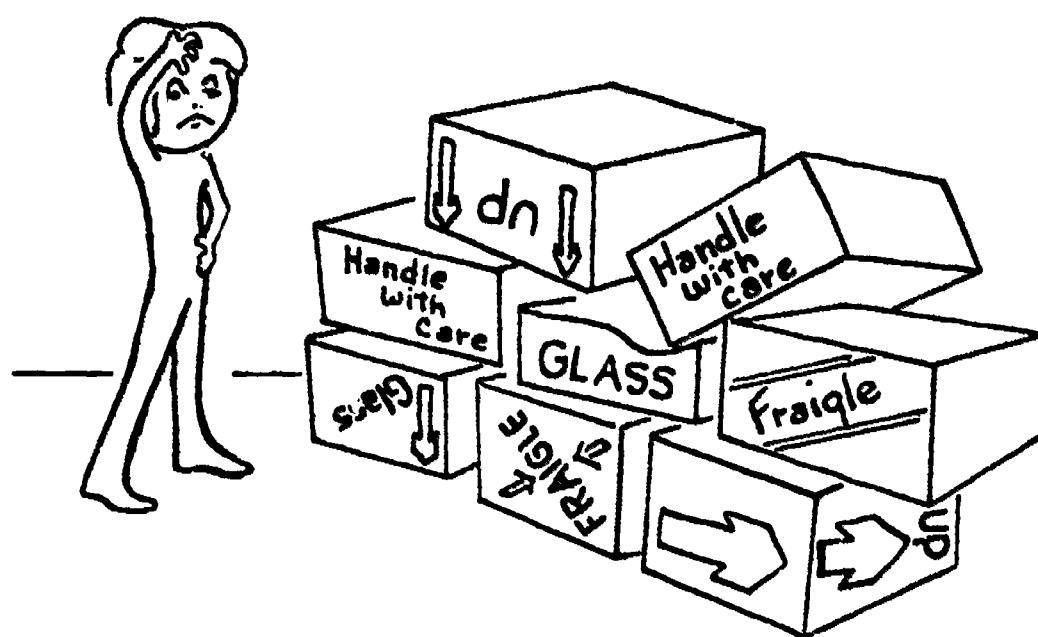
Protruding object hazard



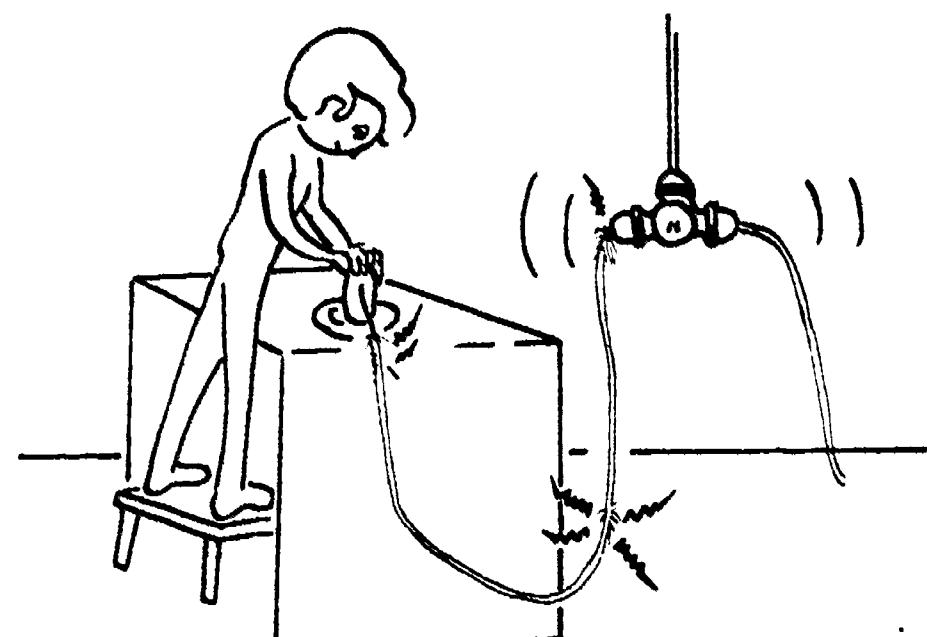
Close clearance and congestion hazards



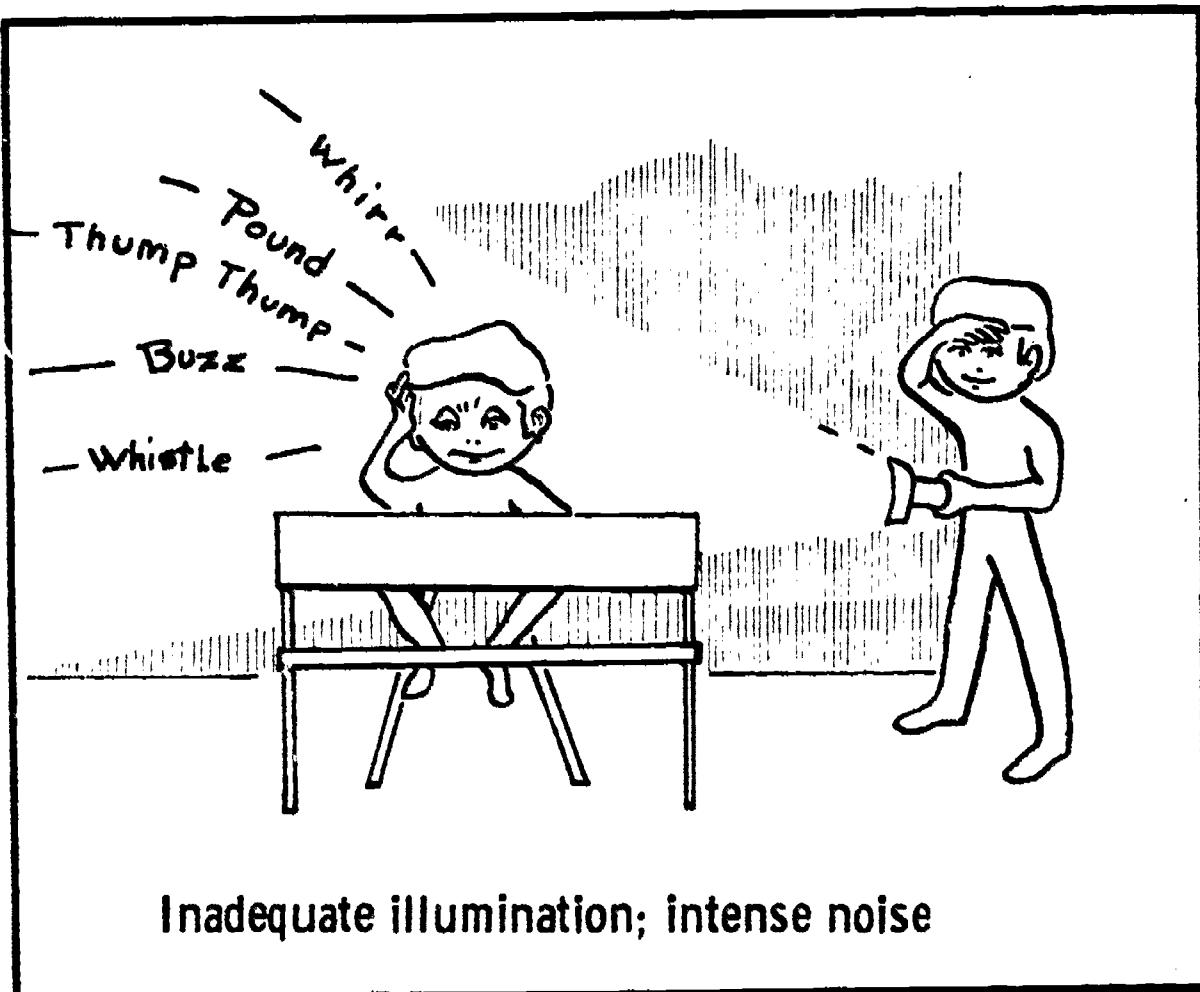
Hazardous atmospheric conditions



Hazardous arrangement, placement, or storage



Hazardous defects of tools, equipment, etc.



RULES FOR FARM TRACTOR SAFETY

OPERATING a tractor can be easy and safe--yet thousands of persons are killed or injured each year in tractor accidents.

WHY? Too many tractor operators don't know, or ignore, a few simple safety rules.

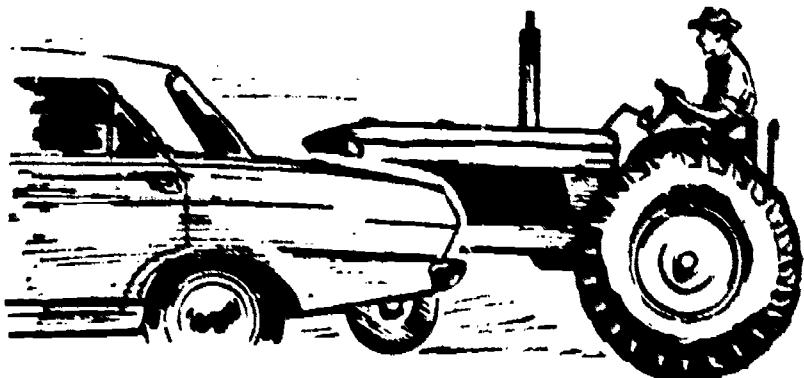
On the following transparencies you will see some of the most important rules for tractor safety.

By LEARNING and USING these rules whenever you operate a tractor, you will accomplish two things:

1. You will demonstrate that you are a mature, responsible person.
2. You will protect something that neither you nor anyone else can replace--YOUR LIFE.

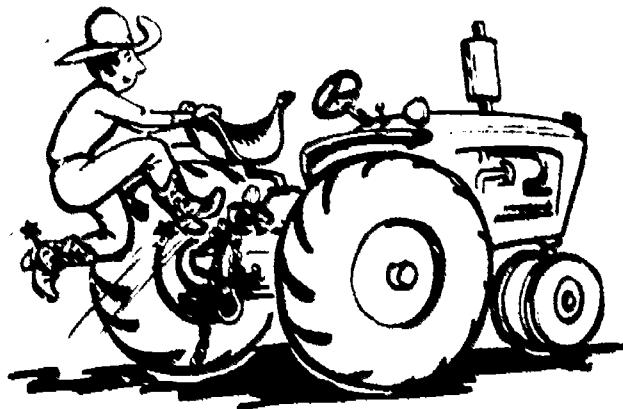
*This series of transparencies was developed by L.C. Scaggs, teacher of agriculture, at Fleming County High School for use in teaching an agriculture mechanics unit published by the CDC.

TRACTOR SAFETY



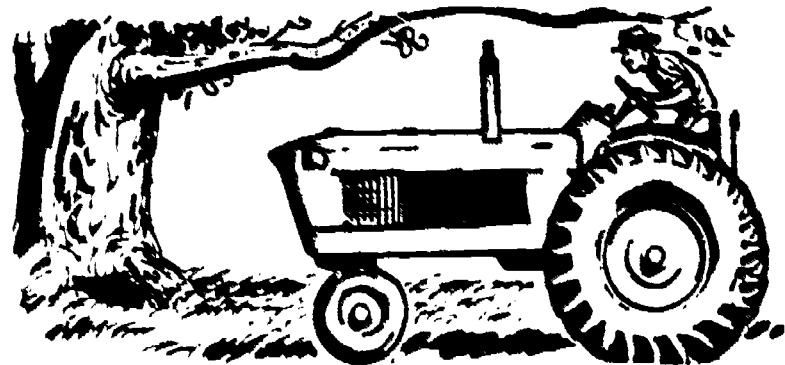
DO

Realize HIGH-SPEED CARS and SLOW-SPEED TRACTORS present a dangerous situation.
Abide by the rules of the highway. Use proper hand signals, slow-moving vehicle reflectors, lighting and marking required by your state vehicle code.



DON'T

Travel during heavy traffic periods. Don't turn corner too fast.



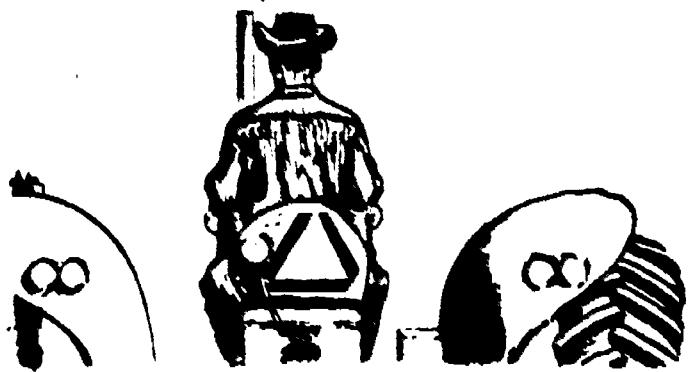
DO

LOOK AHEAD FOR HAZARDS.



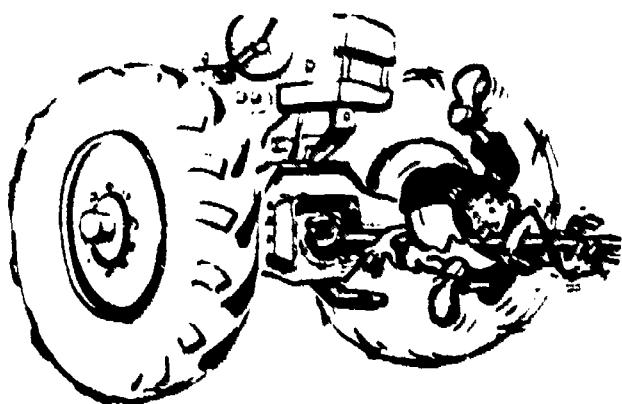
DON'T

LET INJURIES HAPPEN DUE TO YOU NOT BEING
ALERT.



DO

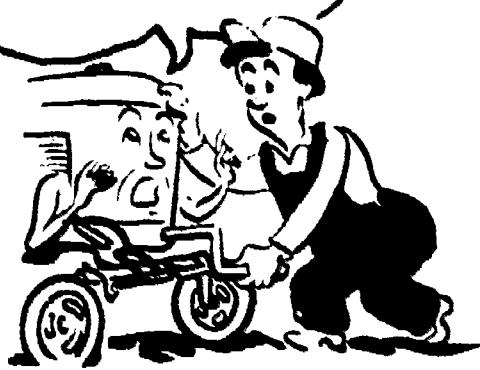
Keep fenders in place at all times as they are
guards for your protection.



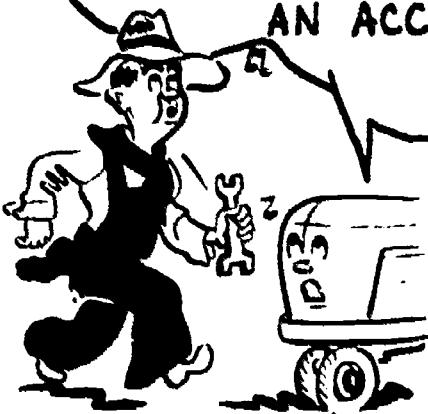
DON'T

Remove any shield from tractor unless absolutely
necessary.

HEY!
PUT ME IN
NEUTRAL FIRST.



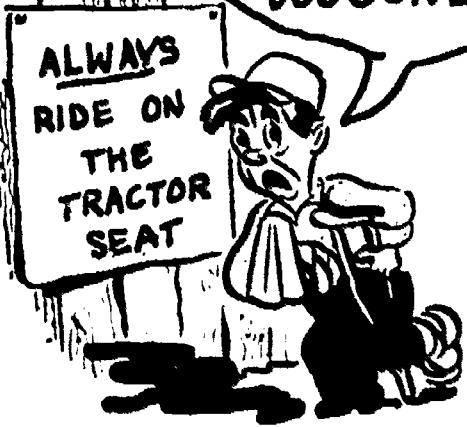
THIS GUY IS
REALLY DRESSED FOR
AN ACCIDENT.



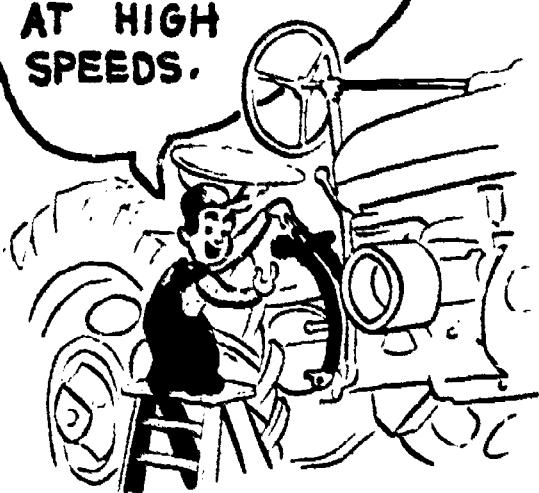
BETTER SLOW DOWN,
BUB.... THEY DON'T
MAKE SPARE PARTS
FOR YOU.



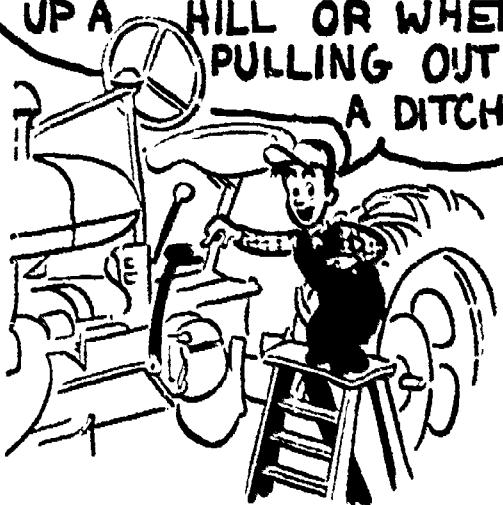
I TRIED
RIDING THE
DRAWBAR,
DOGGONE IT.



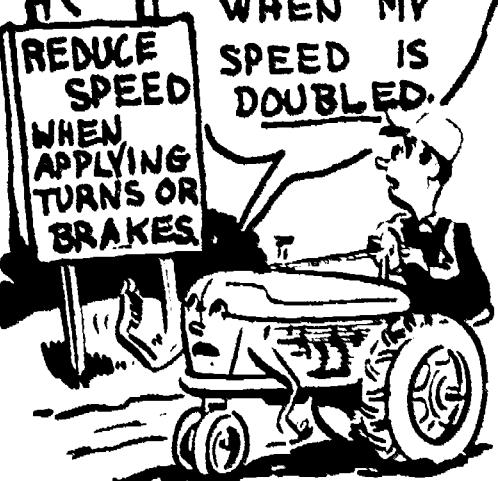
LOCK THESE
TWO TOGETHER
BEFORE DRIVING
AT HIGH
SPEEDS.



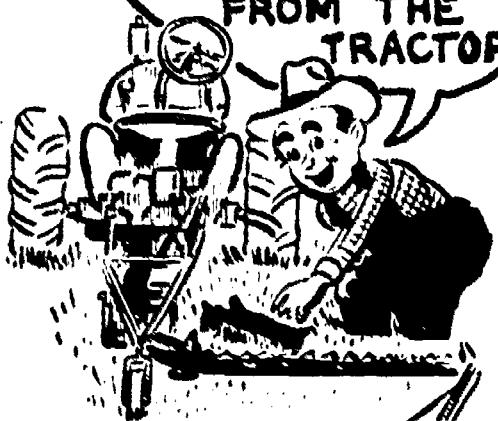
ALWAYS ENGAGE THE
CLUTCH GENTLY,
ESPECIALLY WHEN GOING
UP A HILL OR WHEN
PULLING OUT OF
A DITCH.



I TURN OVER
4 TIMES AS EASY
WHEN MY
SPEED IS
DOUBLED.



ALWAYS
STOP THE POWER
TAKE-OFF BEFORE
DISMOUNTING
FROM THE
TRACTOR





DO

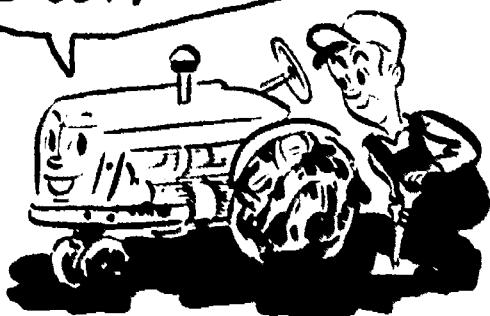
Discourage extra riders on tractors.



DON'T

Allow riders on tractor, drawbar, or towed equipment.

USE A SHOVEL,
JACK, OR ANOTHER
TRACTOR, TO GET
ME OUT!



DO

WHEN STUCK IN MUD, TRY TO BACK OUT. BE PULLED
OUT IF NECESSARY.

HEY! YA
WANNA TURN
ME OVER?



DON'T

GUN THE ENGINE AND DON'T FASTEN POST TO REAR WHEELS
TO GET OUT.

BEST COPY AVAILABLE

BEST COPY AVAILABLE

Tractor Crash Kills Farmer Man Dies

YOUTH PINNED BY TRACTOR, DIES

Tractor

Mishap Kills Farmer, 52

RICHMOND, Ky. — A Madison County farmer was killed Thursday when the tractor on which he was riding went out of control and plunged over an embankment.

██████████ 52, Richmond Route 4, died of a crushed chest and other internal injuries, Madison County Deputy coroner █████ said. The accident happened on the Boett farm, seven miles north-

54% of Farm Fatalities Are Tractor Falls

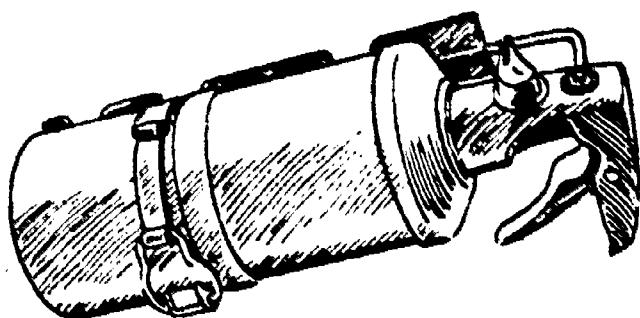
BROOKINGS, S.D. — Thirteen South Dakotans were victims of tractor accidents during 1968, according to █████ agricultural engineer at South Dakota State University.

Tractors accounted for 54 per cent of all farm fatalities last year and tipping accounted for at least 20 per cent of the deaths. Five out of the 13 counted in South Dakota were

Victim of Tractor Accident Monday

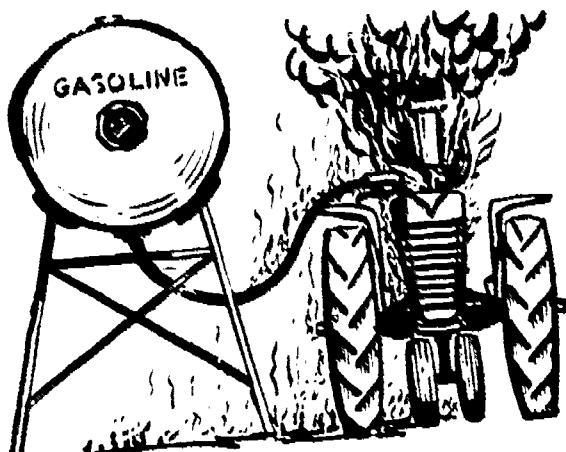
██████████ 16, son of Mr. and Mrs. █████ of the Mt. Tabor road, Ewing route 1, was injured Monday evening, when thrown from a tractor.

The youth was riding the tractor in the tobacco field at the home of his parents, when the accident occurred. He suffered cuts and bruises, but escaped without broken bones. He was



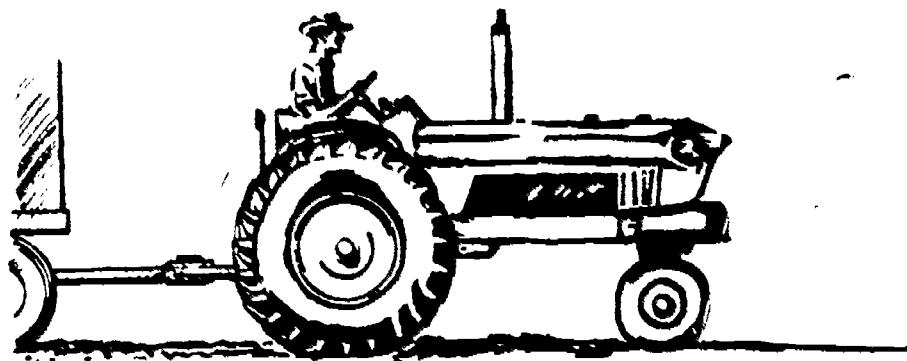
DO

STOP ALL MACHINERY AND SHUT OFF ALL ENGINES WHEN
REPAIRING AND REFUELING. ALLOW TO COOL BEFORE
REFUELING. CARRY AN APPROVED DRY CHEMICAL
EXTINGUISHER.



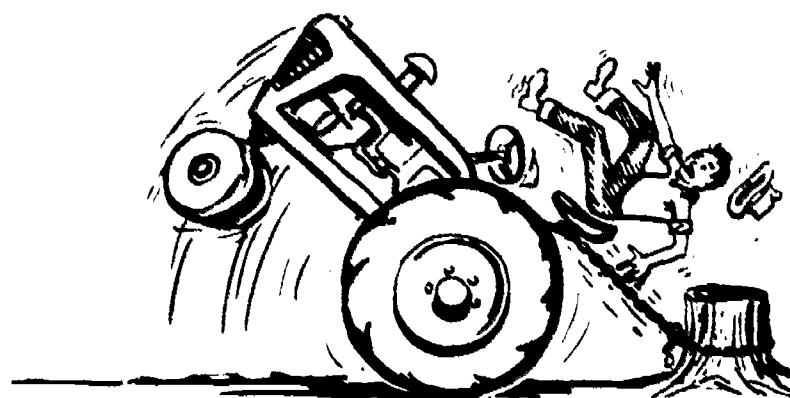
DON'T

LET THIS HAPPEN TO YOU.



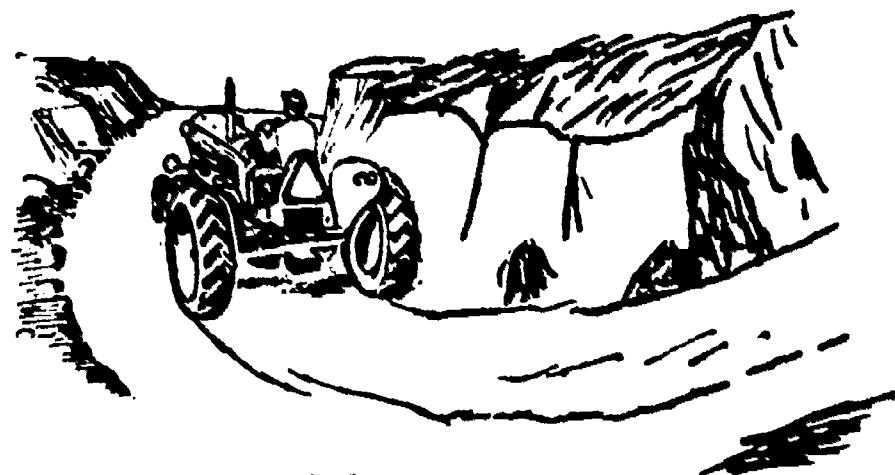
DO

Hitch only to the drawbar and keep it low.



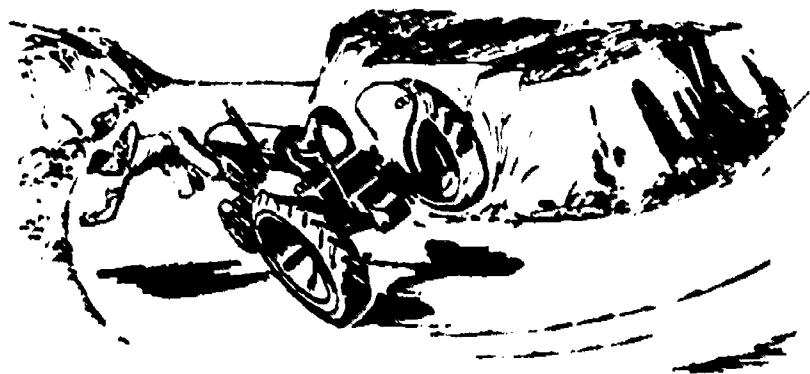
DON'T

Hitch the load too high, as this may overturn tractor backwards.



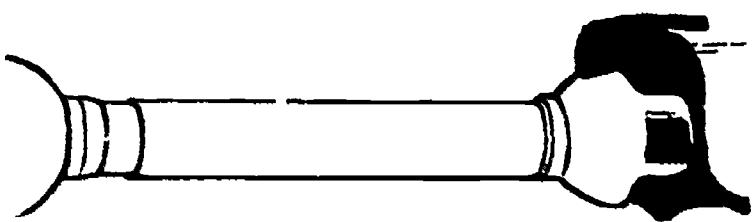
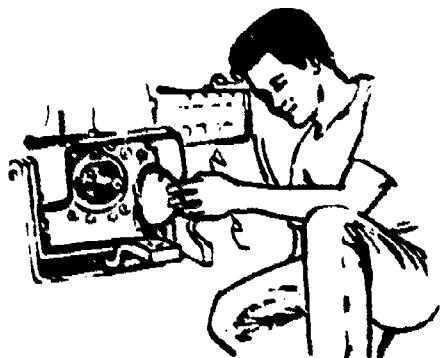
DO

SLOW DOWN when turning to prevent over-
turning sideways.



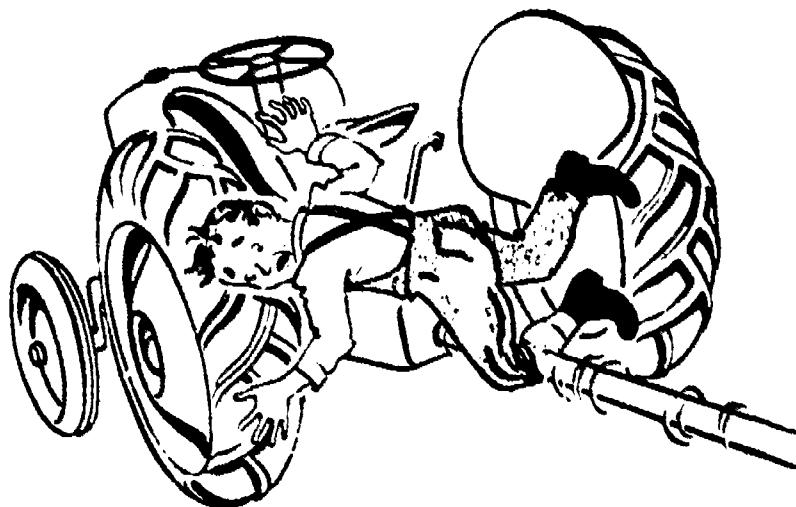
DON'T

Make SHORT TURNS while traveling at high
speed, even on level ground, because tractor
may overturn sideways.



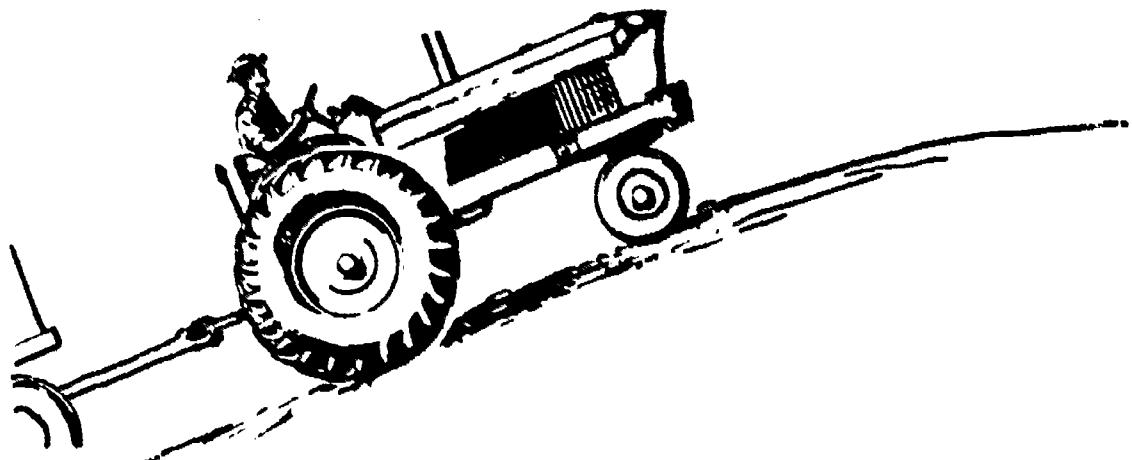
DO

ALWAYS KEEP POWER-TAKE OFF SHIELD IN PLACE.



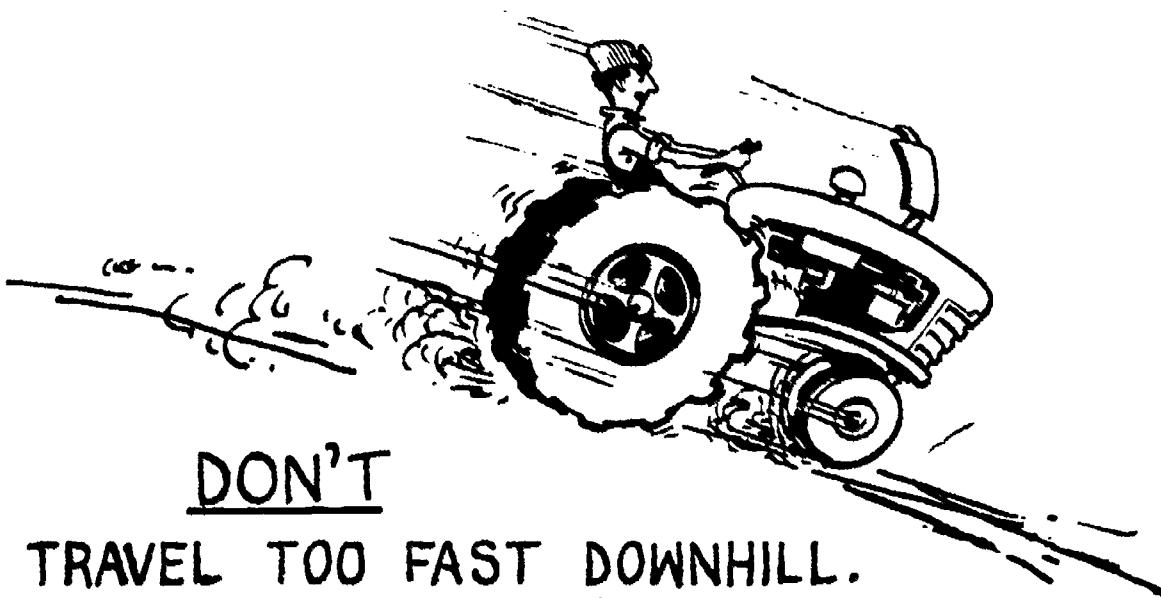
DON'T

ALLOW A PTO SHAFT TO MUTILATE YOU.
DO NOT WEAR LOOSE CLOTHING.



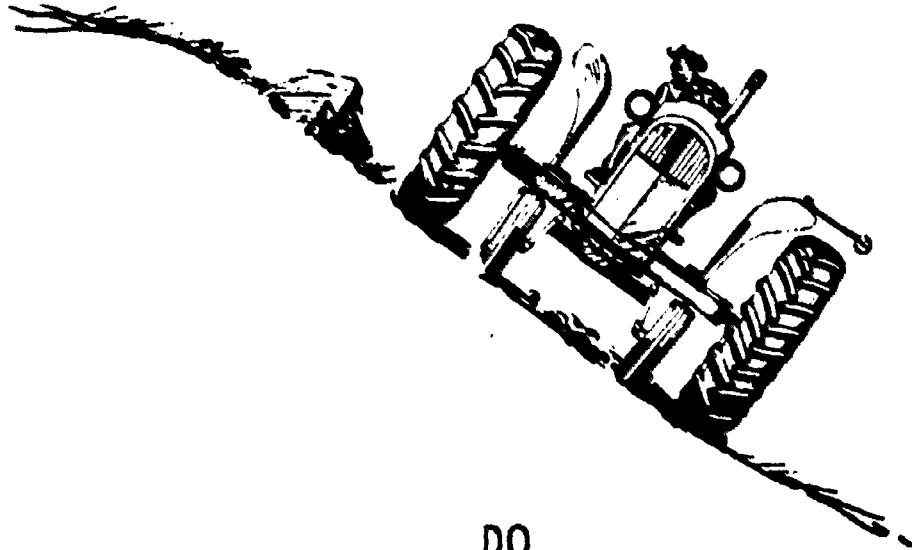
DO

ADD FRONT-END WEIGHTS WHEN OPERATING
ON HILLY GROUND AND PROCEED WITH CAUTION.
(USE LOWER GEARS WHEN GOING DOWNHILL.)



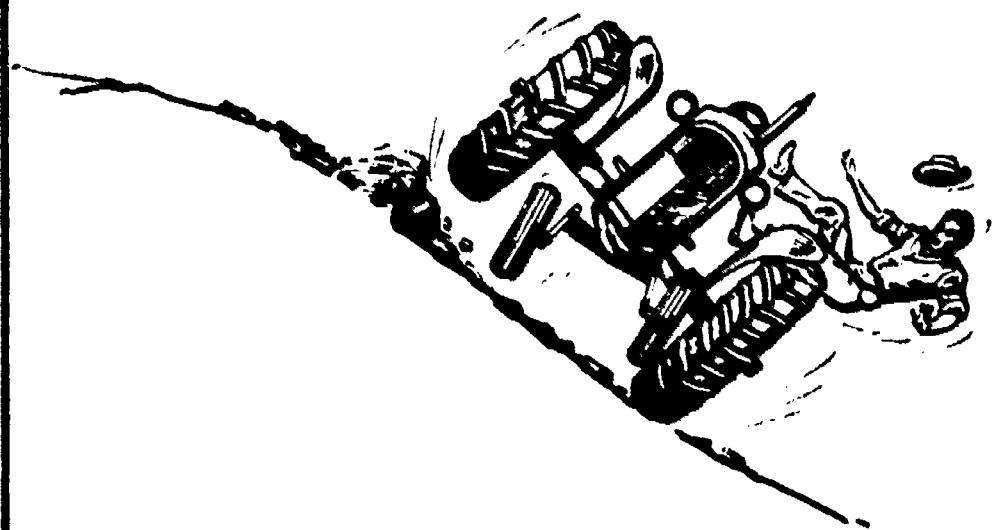
DON'T

TRAVEL TOO FAST DOWNHILL.
TAKE TRACTOR OUT OF GEAR.



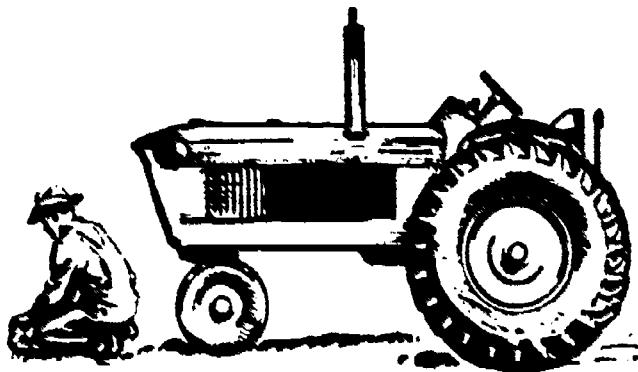
DO

Avoid obstacles such as holes, stones or stumps when working on slopes. Spread wheels wide apart.



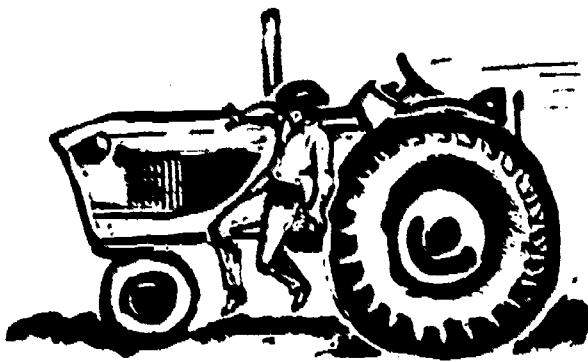
DON'T

Allow holes, rocks, stumps or rough ground to upset you.



DO

GET OFF ONLY AFTER TRACTOR STOPS. ALLOW
IT TO BE IN MOTION ONLY WHEN A DRIVER IS
AT THE CONTROLS.



DON'T

DISMOUNT WHEN TRACTOR IS MOVING.

DO FOLLOW
SAFE PRACTICES
AND
PREVENT
INJURY
OR
DEATH

IT WAS JUST A TEMPORARY SET-UP.
I DID IT THAT WAY FOR YEARS.
I WAS IN A HURRY.
...OTHER WAY IS TOO
MUCH TROUBLE.



NOW I KNOW WHY
IT'S BETTER TO
SHUT IT OFF.

ALIBIS DON'T EXCUSE ACCIDENTS

BEST COPY AVAILABLE

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